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LED
LCD

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TFT

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KEYPADS

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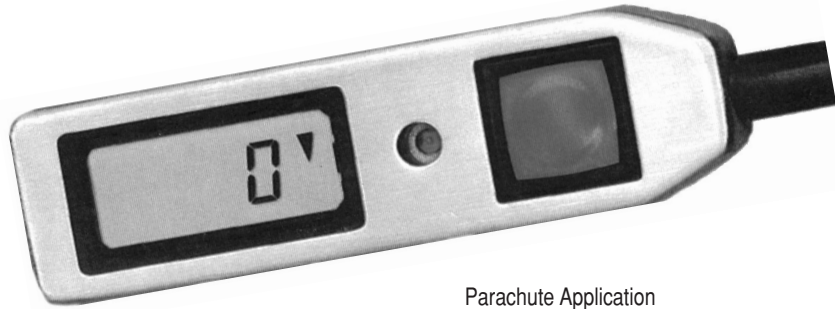
Products 03/2017

Display Elektronik GmbH was established in 1984 as a value added supplier of Liquid Crystal Displays.

We rapidly gained a first class reputation as a supplier of high quality standard and custom designed displays. Our sales activities expanded throughout Europe and other parts of the world. We hold investments in LCD production plants and have licenced contracts with certified LCD-manufacturers. We serve the whole of Europe into the following applications:

APPLICATIONS:

- Telecommunication
- Electromedicine
- Fuel pumps
- Gas meters
- Electricity meters
- Home facilities
- Measuring instruments
- Automotive



Parachute Application

Our standard LCD-product range includes LCD-Panels, Digital-Modules, Alphanumeric-Modules and Graphic-Modules. To complete our LCD-Product range we offer CSTN (Colour STN), TFT-Displays and OLED-Displays as well. In addition we also offer LED-Displays, and several accessories like LED-Backlights and Touch-Panels as well. Besides this we also offer customized membrane switches and rubber keypads.

We are specialized in the LCD/TFT-Business and due to our well experience from the beginning of this technology we can offer you our full service in the design-in stage already.

Display Elektronik GmbH offers:

CELL-TECHNOLOGIES:

- TN – Twisted Nematic
- HTN – High Twisted Nematic
- ETN – Extended Twisted Nematic
- EBTN – Enhanced Brightness Twisted Nematic
- ATN – Automotive Twisted Nematic
- VA – Vertical Alignment
- STN – Super Twisted Nematic
- DSTN – Double STN
- ASTN – Automotive STN
- FSTN – Film Compensated STN
- FFSTN – Dark FSTN
- OLED – Organic LED
- PLED – Polymer LED
- LED – Light Emitting Diode
- CSTN – Color STN
- TFT – Thin Film Transistor
- IPS – In Plane Switching TFT
- EPD – E-Paper, Electrophoretical Displays
- BCD – Bistable Cholesteric Displays

MODULE -TECHNOLOGIES:

- COB – Chip On Board
- COG – Chip On Glass
- TAB/TCP – Tape Carrier Package
- COF – Chip On Foil

CONNECTION-TECHNOLOGIES:

- Elastomer/Zebra
- Pins (standard or custom)
- Heat-Seal
- FFC (Flat-Flexible-Cable)
- FPC (Flexible-Printed-Circuit)
- With or without stiffener (ZIF)
- FMC (Flexible-Metal-Circuit)

BACKLIGHT-TECHNOLOGIES:

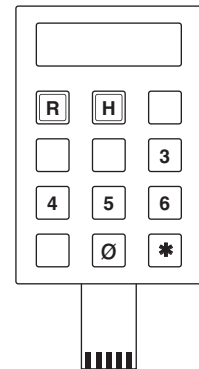
- LED – Lightguide (indirect)
- LED – Lightbox (direct, matrix)
- EL – Electroluminescence foil
- CCFL – Cold Cathode Fluorescence lamp
- RGB – Red/Green/Blue backlight (LED)
- OLED – OLED-backlight (new technology)

PRODUCTION FACILITIES:

- PLANTS – 3 independent lines
- SHEET SIZE – 14" x 16" (mainly)
- CAPACITY – 500000m² sheets per year
- CLEANROOM – CLASS 10000 – CLASS 1000 – CLASS 100
- LOCATION – Taiwan and China

KEYPADS:

- Membrane Switch
- Rubber Keypad



TOUCH-PANELS:

- 4WR - 4 Wire Resistive
- 5WR - 5 Wire Resistive
- 8WR - 8 Wire Resistive
- PCT - Projective Capacitive
- SAW - Sound Acoustic Wave
- IR - Infrared

We offer a full custom design service, from a simple segment panel display through to a complete monochrome or color graphic display solution including interface, backlight and additional components like buttons. This includes a permanent technical support during the series production.

Please contact us – we will make sure that the first step will lead to a successful long lasting reliable partnership.

DESIGN OF CUSTOMIZED DISPLAYS

Please send us:

- a sketch or drawing of the intended display
- details according to the questionnaire
- volume of requested mass production with time schedule

We will send you an offer including:

- tooling costs incl. prototypes
- price for mass production
- time schedule and terms

In case of an order you will get a drawing for your approval. After approval of the drawing, we will start to manufacture the prototypes. After approval of the prototypes by yourself, we will start with mass production. We follow this procedure since many years. This is to ensure that each step has to be approved by you, before the next step will be done. You will be therefore on the safe side.

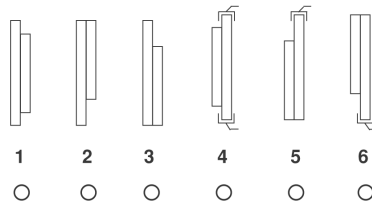
Our capabilities include:

- Glass LCDs
- Chip on Board
- Chip on Flex/Chip on Foil
- Chip on Glass
- Custom LCD Character and Graphics Modules
- Value Added including Zebra Strips, Bezels, PCB's, Membrane Switches, Silicone Rubber Key Pads

Custom LCD Design Guide



LCD Configuration - Select one



A = WIDTH OF GLASS _____ mm
 B = LARGE GLASS _____ mm
 C = VIEWING AREA _____ mm

D = VIEWING AREA _____ mm
 E = SMALL GLASS _____ mm
 F = GLASS THICKNESS _____ mm

Application _____ Outdoor Indoor
 Operating temperature from _____ °C to _____
 Storage temperature from _____ °C to _____

- Reflective (for ambient light)
- Transflective (for ambient light with possibility of backlight)
- Transmissive (for backlight only)

Mode

- TN STN (yellow/green) FSTN FSC NEGATIVE
- HTN STN (grey) DSTN CSTN POSITIVE
- EBTN STN (blue) FFSTN TFT
- ATN ESTN OLED
- VA ASTN E-PAPER

Connection

- Elastomer Heatseal
- Fixed pins FFC
- Connector FPC Pitch: _____ mm

Viewing angle Top view, 12 o'clock Bottom view, 6 o'clock

Electrical Specifications

operating voltage _____ Volt
 Driving frequency _____ Hz
 Driving IC, model _____
 Brand of IC _____

Driving

Static (direct) Multiplexed Duty rate _____

Custom Module Design Guide

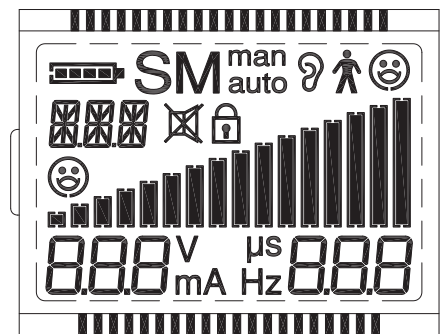
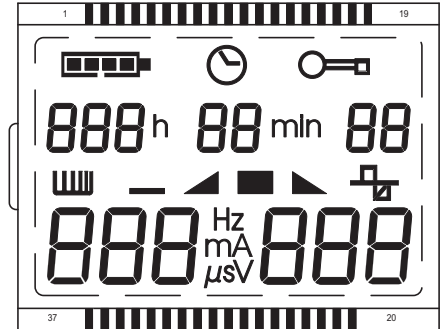
PCB technology: size: COG: total size _____ x _____
 COB: total size _____ x _____
 TCP: total size _____ x _____

Backlight LED EL CCFL Color: _____

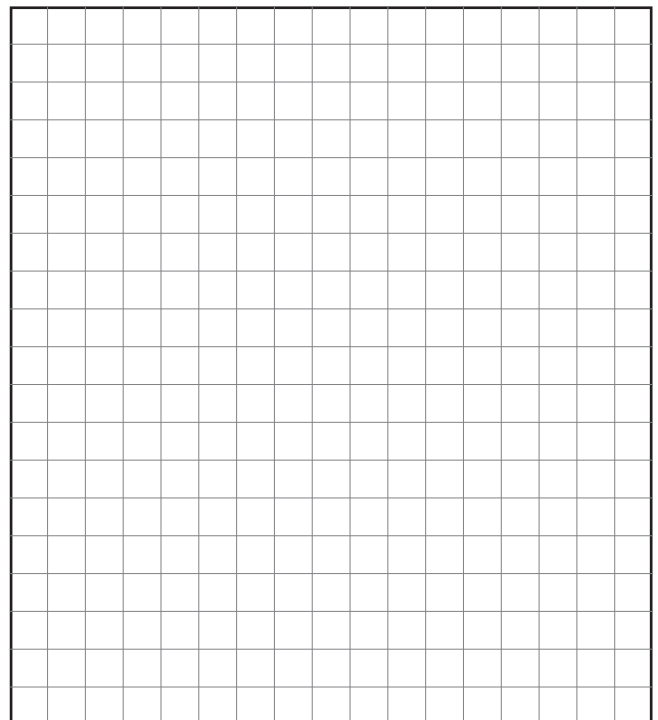
Touch-Panel Technology: _____

Other description: _____

CUSTOM LCD AND MODULES



DISPLAY - DESIGN



COMPANY _____ TEL _____

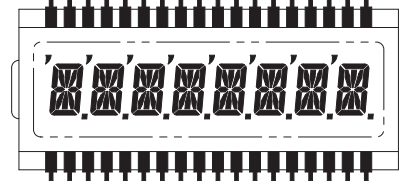
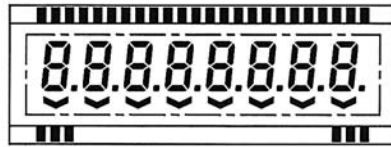
STREET _____ FAX _____

CITY _____

NAME _____ Req. prototypes _____ pcs

E-MAIL _____ Annual demand _____ pcs

7-SEGMENT PANELS



MODEL	DISPLAY FORMAT	SEGMENT INFO	DIGIT HEIGHT	VIEWING AREA	GLASS SIZE	POLARIZER MODE	TEMPERATURE RANGE	PIN-LENGTH	OPERATING VOLTAGE	DRIVING METHOD
DE 175-MS-10/8,4	1 CHAR	5x7 MATRIX	48,2	39,4 x 49,5	45,7 x 63,5	TRANSMISSIVE	0°C to +50°C	8,40	5 Volt	STATIC
DE 175-RS-10/8,4	1 CHAR	5x7 MATRIX	48,2	39,4 x 49,5	45,7 x 63,5	REFLECTIVE	0°C to +50°C	8,40	5 Volt	STATIC
DE 175-TS-10/8,4	1 CHAR	5x7 MATRIX	48,2	39,4 x 49,5	45,7 x 63,5	TRANSFLECTIVE	0°C to +50°C	8,40	5 Volt	STATIC
DE 174-RS-20/6,35	1 CHAR	5x7 MATRIX	70,0	50,8 x 71,1	57,2 x 82,6	REFLECTIVE	-20°C to +70°C	6,35	5 Volt	STATIC
DE 174-RS-20/7,5	1 CHAR	5x7 MATRIX	70,0	50,8 x 71,1	57,2 x 82,6	REFLECTIVE	-20°C to +70°C	7,50	5 Volt	STATIC
DE 324-RU-30/8,0	1 DIGIT	-	50,8	38,1 x 54,9	42,5 x 68,5	REFLECTIVE	-40°C to +90°C	8,00	3-5 Volt	STATIC
DE 323-RS-20/7,5	1 DIGIT	-	76,0	71,2 x 89,0	76,2 x 101,6	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 112-RS-20/6,35	2 DIGITS	-	12,7	21,1 x 16,9	28,0 x 30,5	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 112-TS-20/7,5	2 DIGITS	-	12,7	21,1 x 16,9	28,0 x 30,5	TRANSFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 112-TU-30/6,35	2 DIGITS	-	12,7	21,1 x 16,9	28,0 x 30,5	TRANSFLECTIVE	-40°C to +90°C	6,35	3-5 Volt	STATIC
DE 112-TU-30/13,0	2 DIGITS	-	12,7	21,1 x 16,9	28,0 x 30,5	TRANSFLECTIVE	-40°C to +90°C	13,00	3-5 Volt	STATIC
DE 123-MU-20/6,35	3 DIGITS	-	8,9	24,1 x 11,4	30,5 x 22,9	TRANSMISSIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 123-MU-30/6,35	3 DIGITS	-	8,9	24,1 x 11,4	30,5 x 22,9	TRANSMISSIVE	-40°C to +90°C	6,35	3-5 Volt	STATIC
DE 123-RS-20/6,35	3 DIGITS	-	8,9	24,1 x 11,4	30,5 x 22,9	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 123-RS-20/7,5	3 DIGITS	-	8,9	24,1 x 11,4	30,5 x 22,9	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 123-TU-30/7,5	3 DIGITS	-	8,9	24,1 x 11,4	30,5 x 22,9	TRANSFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 151-RS-20/7,5	3-1/2 DIGITS	ARROW	8,9	44,5 x 11,4	50,8 x 22,9	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 115-RS-20/7,5	3-1/2 DIGITS	LOW-BAT	10,0	38,0 x 13,0	42,0 x 22,0	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 113-MS-20/7,5	3-1/2 DIGITS	LOW-BAT	12,7	44,5 x 16,5	50,8 x 30,5	TRANSMISSIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 113-RS-20/6,35	3-1/2 DIGITS	LOW-BAT	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 113-RS-20/7,5	3-1/2 DIGITS	LOW-BAT	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 113-RS-20/8,4	3-1/2 DIGITS	LOW-BAT	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	8,40	3-5 Volt	STATIC
DE 113-RS-20/12,2	3-1/2 DIGITS	LOW-BAT	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	12,20	3-5 Volt	STATIC
DE 113-RU-30/7,5	3-1/2 DIGITS	LOW-BAT	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 113-TS-20/7,5	3-1/2 DIGITS	LOW-BAT	12,7	44,5 x 16,5	50,8 x 30,5	TRANSFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 113-TU-30/8,4	3-1/2 DIGITS	LOW-BAT	12,7	44,5 x 16,5	50,8 x 30,5	TRANSFLECTIVE	-40°C to +90°C	8,40	3-5 Volt	STATIC
DE 114-RS-20/6,35	3-1/2 DIGITS	~BAT	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 114-RS-20/7,5	3-1/2 DIGITS	~BAT	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 114-RS-20/8,4	3-1/2 DIGITS	~BAT	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	8,40	3-5 Volt	STATIC
DE 170-RS-20/7,5	3-1/2 DIGITS	ARROW	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 170-RU-30/6,35	3-1/2 DIGITS	ARROW	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-40°C to +90°C	6,35	3-5 Volt	STATIC
DE 170-TS-20/6,35	3-1/2 DIGITS	ARROW	12,7	44,5 x 16,5	50,8 x 30,5	TRANSFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 131-RU-30/8,4	3-1/2 DIGITS	ARROW	17,8	62,2 x 24,1	69,9 x 38,1	REFLECTIVE	-40°C to +90°C	8,40	3-5 Volt	STATIC
DE 131-TU-30/6,35	3-1/2 DIGITS	ARROW	17,8	62,2 x 24,1	69,9 x 38,1	TRANSFLECTIVE	-40°C to +90°C	6,35	3-5 Volt	STATIC
DE 182-RS-20/7,5	3-1/2 DIGITS	~BAT	17,8	65,8 x 26,0	69,8 x 38,0	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 117-RS-20/6,35	4 DIGITS	-	6,8	21,5 x 9,4	23,9 x 16,8	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 117-RS-20/7,5	4 DIGITS	-	6,8	21,5 x 9,4	23,9 x 16,8	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 117-RS-21	4 DIGITS	-	6,8	21,5 x 9,4	23,9 x 16,8	REFLECTIVE	-20°C to +70°C	ZEBRA	3-5 Volt	STATIC
DE 117-TS-20/7,5	4 DIGITS	-	6,8	21,5 x 9,4	23,9 x 16,8	TRANSFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 117-TU-21	4 DIGITS	-	6,8	21,5 x 9,4	23,9 x 16,8	TRANSFLECTIVE	-20°C to +70°C	ZEBRA	3-5 Volt	STATIC
DE 118-RS-11	4 DIGITS	-	8,0	34,0 x 12,0	38,0 x 20,3	REFLECTIVE	0°C to +50°C	ZEBRA	3-5 Volt	STATIC
DE 118-RS-20/6,35	4 DIGITS	-	8,0	34,0 x 12,0	38,0 x 20,3	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 118-RS-21	4 DIGITS	-	8,0	34,0 x 12,0	38,0 x 20,3	REFLECTIVE	-20°C to +70°C	ZEBRA	3-5 Volt	STATIC
DE 118-RU-21	4 DIGITS	-	8,0	34,0 x 12,0	38,0 x 20,3	REFLECTIVE	-20°C to +70°C	ZEBRA	3-5 Volt	STATIC
DE 118-TS-20/8,0	4 DIGITS	-	8,0	34,0 x 12,0	38,0 x 20,3	TRANSFLECTIVE	-20°C to +70°C	8,00	3-5 Volt	STATIC
DE 118-TS-21/12°	4 DIGITS	-	8,0	34,0 x 12,0	38,0 x 20,3	TRANSFLECTIVE	-20°C to +70°C	ZEBRA	3-5 Volt	STATIC
DE 116-TU-31	4 DIGITS	-	8,0	34,0 x 12,0	38,0 x 20,3	TRANSFLECTIVE	-40°C to +90°C	ZEBRA	3-5 Volt	STATIC
DE 127-RS-20/6,35	4 DIGITS	-	8,9	44,5 x 11,4	50,8 x 22,9	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 127-RS-20/7,5	4 DIGITS	-	8,9	44,5 x 11,4	50,8 x 22,9	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 127-TU-30/7,5	4 DIGITS	-	8,9	44,5 x 11,4	50,8 x 22,9	TRANSFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 325-RS-20/8,4 (3 Volt)	4 DIGITS	°C + DIVERSE	11,5	45,0 x 19,0	49,0 x 25,5	REFLECTIVE	-20°C to +70°C	8,40	3 Volt	MUX 1/4
DE 325-RS-20/8,4 (5 Volt)	4 DIGITS	°C + DIVERSE	11,5	45,0 x 19,0	49,0 x 25,5	REFLECTIVE	-20°C to +70°C	8,40	5 Volt	MUX 1/4
DE 119-MS-20/7,5/N	4 DIGITS	-	12,7	44,5 x 16,5	50,8 x 30,5	TRANSMISSIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 119-RS-20/6,35	4 DIGITS	-	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 119-RS-20/7,5	4 DIGITS	-	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 119-TS-20/7,5	4 DIGITS	-	12,7	44,5 x 16,5	50,8 x 30,5	TRANSFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 119-TU-30/8,4	4 DIGITS	-	12,7	44,5 x 16,5	50,8 x 30,5	TRANSFLECTIVE	-40°C to +90°C	8,40	3-5 Volt	STATIC
DE 119-TU-30/12,2	4 DIGITS	-	12,7	44,5 x 16,5	50,8 x 30,5	TRANSFLECTIVE	-40°C to +90°C	12,20	3-5 Volt	STATIC
DE 161-RS-20/7,5 (3 Volt)	4 DIGITS	-	12,7	45,7 x 17,7	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	3 Volt	MUX 1/3
DE 161-RS-20/7,5 (5 Volt)	4 DIGITS	-	12,7	45,7 x 17,7	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	5 Volt	MUX 1/3
DE 161-TS-20/7,5 (3 Volt)	4 DIGITS	-	12,7	45,7 x 17,7	50,8 x 30,5	TRANSFLECTIVE	-20°C to +70°C	7,50	3 Volt	MUX 1/3
DE 161-TS-20/7,5 (5 Volt)	4 DIGITS	-	12,7	45,7 x 17,7	50,8 x 30,5	TRANSFLECTIVE	-20°C to +70°C	7,50	5 Volt	MUX 1/3
DE 152-RS-20/7,5	4 DIGITS	TRIANGLE	12,7	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 120-RS-20/7,5	4 DIGITS	-	17,8	63,5 x 24,1	69,9 x 38,1	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC

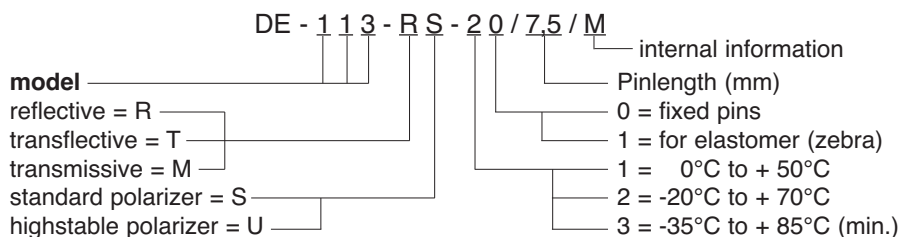
other models upon request

7-SEGMENT PANELS

MODEL	DISPLAY FORMAT	SEGMENT INFO	DIGIT HEIGHT	VIEWING AREA	GLASS SIZE	POLARIZER MODE	TEMPERATURE RANGE	PIN- LENGTH	OPERATING VOLTAGE	DRIVING METHOD
DE 120-TS-20/7,5	4 DIGITS	-	17,8	63,5 x 24,1	69,9 x 38,1	TRANSFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 158-RS-20/6,35	4 DIGITS	-	25,4	87,5 x 31,8	94,0 x 45,7	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 158-RS-20/8,4	4 DIGITS	-	25,4	87,5 x 31,8	94,0 x 45,7	REFLECTIVE	-20°C to +70°C	8,40	3-5 Volt	STATIC
DE 158-RU-30/8,4	4 DIGITS	-	25,4	87,5 x 31,8	94,0 x 45,7	REFLECTIVE	-40°C to +90°C	8,40	3-5 Volt	STATIC
DE 158-TU-30/8,4	4 DIGITS	-	25,4	87,5 x 31,8	94,0 x 45,7	TRANSFLECTIVE	-40°C to +90°C	8,40	3-5 Volt	STATIC
DE 128-RS-20/7,5	4-1/2 DIGITS	ARROW	8,9	44,5 x 11,4	50,8 x 22,9	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 128-RS-20/12,2	4-1/2 DIGITS	ARROW	8,9	44,5 x 11,4	50,8 x 22,9	REFLECTIVE	-20°C to +70°C	12,20	3-5 Volt	STATIC
DE 128-TU-20/7,5	4-1/2 DIGITS	ARROW	8,9	44,5 x 11,4	50,8 x 22,9	TRANSFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 128-TU-30/7,5	4-1/2 DIGITS	ARROW	8,9	44,5 x 11,4	50,8 x 22,9	TRANSFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 121-RS-20/6,35	4-1/2 DIGITS	LOW-BAT	10,2	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 121-RS-20/7,5	4-1/2 DIGITS	LOW-BAT	10,2	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 159-RS-20/7,5	4-1/2 DIGITS	ARROW	10,2	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 183-RU-30/8,4 (3 Volt)	4-1/2 DIGITS	DIVERSE	10,0	46,8 x 18,0	50,8 x 30,5	REFLECTIVE	-40°C to +90°C	8,40	3 Volt	MUX 1/3
DE 183-RU-30/8,4 (5 Volt)	4-1/2 DIGITS	DIVERSE	10,0	46,8 x 18,0	50,8 x 30,5	REFLECTIVE	-40°C to +90°C	8,40	5 Volt	MUX 1/3
DE 183-TU-20/8,4 (5 Volt)	4-1/2 DIGITS	DIVERSE	10,0	46,8 x 18,0	50,8 x 30,5	TRANSFLECTIVE	-20°C to +70°C	8,40	5 Volt	MUX 1/3
DE 184-RS-20/7,5	4-1/2 DIGITS	ARROW	15,2	63,0 x 24,0	69,9 x 38,1	REFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 160-RS-20/7,5	4-1/2 DIGITS	ARROW	20,5	87,5 x 31,7	93,9 x 45,7	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 129-RS-20/12,2	5 DIGITS	-	10,2	44,5 x 16,5	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	12,20	3-5 Volt	STATIC
DE 303-RU-20/12,2 (3 Volt)	5 DIGITS	-	11,0	47,0 x 15,3	50,8 x 30,5	REFLECTIVE	-20°C to +70°C	12,20	3 Volt	MUX 1/2
DE 130-RS-20/7,5	5 DIGITS	-	17,8	74,9 x 24,1	81,3 x 38,1	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 130-TS-20/7,5	5 DIGITS	-	17,8	74,9 x 24,1	81,3 x 38,1	TRANSFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 163-RU-30/7,5	5 DIGITS	-	25,4	107,0 x 30,5	114,3 x 45,7	REFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 163-TU-30/7,5	5 DIGITS	-	25,4	107,0 x 30,5	114,3 x 45,7	TRANSFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 126-RS-20/7,5	6 DIGITS	-	8,9	58,5 x 12,4	63,5 x 22,9	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 122-RS-20/6,35	6 DIGITS	-	12,7	63,5 x 16,5	69,9 x 30,5	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 122-TU-30/12,2	6 DIGITS	-	12,7	63,5 x 16,5	69,9 x 30,5	TRANSFLECTIVE	-40°C to +90°C	12,20	3-5 Volt	STATIC
DE 132-RS-20/8,4	6 DIGITS	-	17,8	87,5 x 24,1	93,9 x 38,1	REFLECTIVE	-20°C to +70°C	8,40	3-5 Volt	STATIC
DE 132-TU-30/8,4	6 DIGITS	-	17,8	87,5 x 24,1	93,9 x 38,1	TRANSFLECTIVE	-40°C to +90°C	8,40	3-5 Volt	STATIC
DE 156-RU-30/7,5	6 DIGITS	-	25,4	130,8 x 31,8	137,2 x 45,7	REFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 156-TU-30/7,5	6 DIGITS	-	25,4	130,8 x 31,8	137,2 x 45,7	TRANSFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 336-RU-30/6,35	6 DIGITS	-	40,0	162,0 x 58,0	170,0 x 75,0	REFLECTIVE	-40°C to +90°C	6,35	3-5 Volt	STATIC
DE 336-TU-30/6,35	6 DIGITS	-	40,0	162,0 x 58,0	170,0 x 75,0	TRANSFLECTIVE	-40°C to +90°C	6,35	3-5 Volt	STATIC
DE 337-RU-30/7,5	6 DIGITS	-	80,0	329,0 x 84,0	335,0 x 96,0	REFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 337-TU-30/7,5	6 DIGITS	-	80,0	329,0 x 84,0	335,0 x 96,0	TRANSFLECTIVE	-40°C to +90°C	7,50	3-5 Volt	STATIC
DE 188-RU-30/7,5 (3 Volt)	8 DIGITS	-	5,0	31,9 x 6,0	34,9 x 13,0	REFLECTIVE	-40°C to +90°C	7,50	3 Volt	MUX 1/4
DE 188-RU-30/7,5 (4 Volt)	8 DIGITS	-	5,0	31,9 x 6,0	34,9 x 13,0	REFLECTIVE	-40°C to +90°C	7,50	4 Volt	MUX 1/4
DE 188-TU-30/7,5 (4 Volt)	8 DIGITS	-	5,0	31,9 x 6,0	34,9 x 13,0	TRANSFLECTIVE	-40°C to +90°C	7,50	4 Volt	MUX 1/4
DE 124-RS-20/7,5 (3 Volt)	8 DIGITS	-	6,0	34,0 x 11,6	38,0 x 20,3	REFLECTIVE	-20°C to +70°C	7,50	3 Volt	MUX 1/2
DE 124-RS-21 (3 Volt)	8 DIGITS	-	6,0	34,0 x 11,6	38,0 x 20,3	REFLECTIVE	-20°C to +70°C	ZEBRA	3 Volt	MUX 1/2
DE 301-RS-20/6,35 (3 Volt)	8 DIGITS	14-SEGMENT	7,0	48,0 x 13,0	52,0 x 22,0	REFLECTIVE	-20°C to +70°C	6,35	3 Volt	MUX 1/4
DE 301-RS-20/6,35 (5 Volt)	8 DIGITS	14-SEGMENT	7,0	48,0 x 13,0	52,0 x 22,0	REFLECTIVE	-20°C to +70°C	6,35	5 Volt	MUX 1/4
DE 301-RS-21 (3 Volt)	8 DIGITS	14-SEGMENT	7,0	47,0 x 13,0	52,0 x 22,0	REFLECTIVE	-20°C to +70°C	ZEBRA	3 Volt	MUX 1/4
DE 301-RS-21 (5 Volt)	8 DIGITS	14-SEGMENT	7,0	47,0 x 13,0	52,0 x 22,0	REFLECTIVE	-20°C to +70°C	ZEBRA	5 Volt	MUX 1/4
DE 301-TS-20/6,35 (3 Volt)	8 DIGITS	14-SEGMENT	7,0	48,0 x 13,0	52,0 x 22,0	TRANSFLECTIVE	-20°C to +70°C	6,35	3 Volt	MUX 1/4
DE 301-TU-30/6,35 (5 Volt)	8 DIGITS	14-SEGMENT	7,0	48,0 x 13,0	52,0 x 22,0	TRANSFLECTIVE	-40°C to +90°C	6,35	5 Volt	MUX 1/4
DE 302-RU-30/6,35 (4,7 Volt)	8 DIGITS	14-SEGMENT	9,0	64,0 x 12,5	70,0 x 25,0	REFLECTIVE	-40°C to +90°C	6,35	4,7 Volt	MUX 1/4
DE 133-RS-30/6,35/12° (3 Volt)	8 DIGITS	ARROW	9,0	64,0 x 14,5	70,0 x 25,0	REFLECTIVE	-40°C to +90°C	6,35	3 Volt	MUX 1/3
DE 133-RS-30/6,35/12° (5 Volt)	8 DIGITS	ARROW	9,0	64,0 x 14,5	70,0 x 25,0	REFLECTIVE	-40°C to +90°C	6,35	5 Volt	MUX 1/3
DE 125-MU-20/7,5	8 DIGITS	-	12,7	87,5 x 16,5	93,9 x 30,5	TRANSMISSIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 125-RS-20/6,35	8 DIGITS	-	12,7	87,5 x 16,5	93,9 x 30,5	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 125-RS-20/7,5	8 DIGITS	-	12,7	87,5 x 16,5	93,9 x 30,5	REFLECTIVE	-20°C to +70°C	7,50	3-5 Volt	STATIC
DE 125-TU-30/12,2	8 DIGITS	-	12,7	87,5 x 16,5	93,9 x 30,5	TRANSFLECTIVE	-40°C to +90°C	12,20	3-5 Volt	STATIC
DE 335-RU-30/6,35	8 DIGITS	-	25,4	167,7 x 31,8	174,0 x 45,7	REFLECTIVE	-40°C to +90°C	6,35	3-5 Volt	STATIC
DE 335-TU-30/6,35	8 DIGITS	-	25,4	167,7 x 31,8	174,0 x 45,7	TRANSFLECTIVE	-40°C to +90°C	6,35	3-5 Volt	STATIC
DE 334-TU-30/13,0	16 x BAR	BARGRAPH	12,7	26,7 x 20,1	31,1 x 30,5	TRANSFLECTIVE	-40°C to +90°C	13,00	3-5 Volt	STATIC
DE 137-RS-20/6,35	32 x BAR	BARGRAPH	12,7	95,3 x 16,5	101,7 x 30,5	REFLECTIVE	-20°C to +70°C	6,35	3-5 Volt	STATIC
DE 137-TU-30/13,0	32 x BAR	BARGRAPH	12,7	95,3 x 16,5	101,7 x 30,5	TRANSFLECTIVE	-40°C to +90°C	13,00	3-5 Volt	STATIC

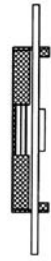
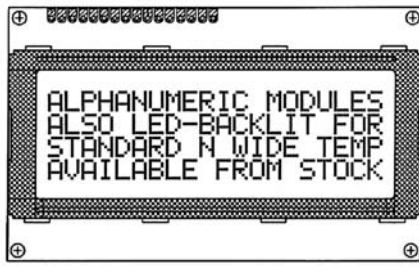
other models upon request

ORDERING INFORMATION



Example:
 DE-113-RS-20/7,5 /M
 LCD 3-1/2 digits
 Digit height 12,7 mm
 Reflective
 Standard polarizer
 Extended temperature
 Fixed pins
 Pinlength 7,5 mm

ALPHANUMERIC DOT MATRIX MODULES



MODEL	DISPLAY FORMAT	CHARACTER HEIGHT	VIEWING AREA	MODULE SIZE	TECHNOLOGY	BACKLIGHT / COLOR	IMAGE (POS/NEG)	MPU INTERFACE	REMARKS
DEM 08171 FGH-PW	8 x 1	7,93	44,0 x 13,0	60,0 x 33,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 08171 SBH-PW-N	8 x 1	7,93	44,0 x 13,0	60,0 x 33,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 08171 SYH	8 x 1	7,93	44,0 x 13,0	60,0 x 33,0	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 08171 SYH-LY	8 x 1	7,93	44,0 x 13,0	60,0 x 33,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 08172 FGH-PW	8 x 1	10,75	61,0 x 15,8	84,0 x 44,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 08172 SBH-PW-N	8 x 1	10,75	61,0 x 15,8	84,0 x 44,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 08172 SYH-PY	8 x 1	10,75	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 08172 SYH-PY-CYR22	8 x 1	10,75	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 08201 SGH-LY	8 x 2	4,35	31,0 x 14,5	40,0 x 30,5	STN-GREY	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 08202 SYH-LY	8 x 2	5,00	35,0 x 15,0	58,0 x 32,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16101 SYH	16 x 1	5,95	63,5 x 13,8	80,0 x 36,0	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16101 SYH-LY	16 x 1	5,95	63,5 x 13,8	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16101 TGH	16 x 1	5,95	63,5 x 13,8	80,0 x 36,0	TN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16102 FGH-PW	16 x 1	7,90	61,0 x 15,8	80,0 x 36,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16102 SBH-PW-N	16 x 1	7,90	61,0 x 15,8	80,0 x 36,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16102 SYH	16 x 1	7,90	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16102 SYH-CYR22	16 x 1	7,90	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 16102 SYH-LY	16 x 1	7,90	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16102 SYH-LY-CYR22	16 x 1	7,90	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 16102 SYH-PY	16 x 1	7,90	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16102 TGH	16 x 1	7,90	61,0 x 15,8	80,0 x 36,0	TN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16102 TGH-CYR22	16 x 1	7,90	61,0 x 15,8	80,0 x 36,0	TN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 16103 SYH-LY	16 x 1	9,68	99,0 x 13,0	122,0 x 33,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16205 SGH	16 x 2	7,69	76,0 x 18,0	79,0 x 28,0	STN-GREY	NO BACKLIGHT	POSITIVE	SPI	-
DEM 16205 FGH-PW	16 x 2	7,69	76,0 x 18,0	84,0 x 28,0	FSTN	LED / WHITE	POSITIVE	SPI	-
DEM 16205 SBH-PW-N	16 x 2	7,69	76,0 x 18,0	84,0 x 28,0	STN-BLUE	LED / WHITE	NEGATIVE	SPI	-
DEM 16205 SYH-PY	16 x 2	7,69	76,0 x 18,0	84,0 x 28,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	SPI	-
DEM 16207 SGH	16 x 2	4,75	50,0 x 16,0	54,0 x 26,0	STN-GREY	NO BACKLIGHT	POSITIVE	SPI	-
DEM 16207 FGH-PW	16 x 2	4,75	50,0 x 16,0	59,0 x 26,0	FSTN	LED / WHITE	POSITIVE	SPI	-
DEM 16207 SBH-PW-N	16 x 2	4,75	50,0 x 16,0	59,0 x 26,0	STN-BLUE	LED / WHITE	NEGATIVE	SPI	-
DEM 16207 SYH-PY	16 x 2	4,75	50,0 x 16,0	59,0 x 26,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	SPI	-
DEM 16209 FGH-PW	16 x 2	5,15	61,0 x 15,7	76,0 x 28,7	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16209 SBH-PW-N	16 x 2	5,15	61,0 x 15,7	76,0 x 28,7	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16210 SGH	16 x 2	4,35	64,5 x 15,0	69,8 x 30,5	STN-GREY	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16211 SY-LY	16 x 2	5,63	61,0 x 19,0	84,0 x 40,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16211 SY-PY	16 x 2	5,63	61,0 x 19,0	84,0 x 40,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16212 SYH-LY	16 x 2	5,63	61,0 x 19,0	84,0 x 40,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16212 SY-PY	16 x 2	5,63	61,0 x 19,0	84,0 x 40,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16213 SYH	16 x 2	4,35	63,5 x 13,8	80,0 x 36,0	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16214 FGH-PW	16 x 2	7,76	80,0 x 20,5	100,0 x 42,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16214 SBH-PW-N	16 x 2	7,76	80,0 x 20,5	100,0 x 42,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16214 SYH-LY	16 x 2	7,76	80,0 x 20,5	100,0 x 42,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16214 SYH-LY-CYR22	16 x 2	7,76	80,0 x 20,5	100,0 x 42,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 16215 FGH-PW	16 x 2	9,55	99,0 x 24,0	122,0 x 44,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16215 SBH-PW-N	16 x 2	9,55	99,0 x 24,0	122,0 x 44,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16215 SYH-LY	16 x 2	9,55	99,0 x 24,0	122,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-

other models upon request

ALPHANUMERIC DOT MATRIX MODULES

MODEL	DISPLAY FORMAT	CHARACTER HEIGHT	VIEWING AREA	MODULE SIZE	TECHNOLOGY	BACKLIGHT / COLOR	IMAGE (POS/NEG)	MPU INTERFACE	REMARKS
DEM 16215 SYH-LY-CYR22	16 x 2	9,55	99,0 x 24,0	122,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 16216 FDH-LR-N	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	DARK-FSTN	LED / RED	NEGATIVE	8-Bit-MCU	-
DEM 16216 FDH-P(RGB)-N	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	DARK-FSTN	LED / RGB	NEGATIVE	8-Bit-MCU	-
DEM 16216 FGH-LA	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	FSTN	LED / AMBER	POSITIVE	8-Bit-MCU	-
DEM 16216 FGH-LA-N	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	FSTN	LED / AMBER	NEGATIVE	8-Bit-MCU	-
DEM 16216 FGH-LR	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	FSTN	LED / RED	POSITIVE	8-Bit-MCU	-
DEM 16216 FGH-P(RGB)	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	FSTN	LED / RGB	POSITIVE	8-Bit-MCU	-
DEM 16216 FGH-PB	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	FSTN	LED / BLUE	POSITIVE	8-Bit-MCU	-
DEM 16216 FGH-PB-N	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	FSTN	LED / BLUE	NEGATIVE	8-Bit-MCU	-
DEM 16216 FGH-PW	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16216 SBH-PW-N	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16216 SGH	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	STN-GREY	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16216 SYH-LY	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16216 SYH-LY-CYR22	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 16216 SYH-PY	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16216 SYH-PY-CYR22	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 16217 FDH-LR-N	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	DARK-FSTN	LED / RED	NEGATIVE	8-Bit-MCU	-
DEM 16217 FDH-P(RGB)-N	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	DARK-FSTN	LED / RGB	NEGATIVE	8-Bit-MCU	-
DEM 16217 FGH-LA	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	FSTN	LED / AMBER	POSITIVE	8-Bit-MCU	-
DEM 16217 FGH-LA-N	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	FSTN	LED / AMBER	NEGATIVE	8-Bit-MCU	-
DEM 16217 FGH-LR	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	FSTN	LED / RED	POSITIVE	8-Bit-MCU	-
DEM 16217 FGH-P(RGB)	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	FSTN	LED / RGB	POSITIVE	8-Bit-MCU	-
DEM 16217 FGH-PB	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	FSTN	LED / BLUE	POSITIVE	8-Bit-MCU	-
DEM 16217 FGH-PB-N	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	FSTN	LED / BLUE	NEGATIVE	8-Bit-MCU	-
DEM 16217 FGH-PW	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16217 SBH-PW-N	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16217 SYH	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16217 SYH-LY	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16217 SYH-LY-CYR22	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 16217 SYH-PY	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16217 SYH-PY-CYR22	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 16218 SGH	16 x 2	5,55	50,0 x 16,0	55,0 x 24,5	STN-GREY	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16219 SYH-PY	16 x 2	5,55	61,0 x 15,8	85,0 x 32,5	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16220 SYH-PY	16 x 2	5,55	61,0 x 15,8	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16221 FGH-PW	16 x 2	3,80	43,0 x 12,0	49,0 x 20,5	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16221 SBH-PW-N	16 x 2	3,80	43,0 x 12,0	49,0 x 20,5	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16221 SYH	16 x 2	3,80	43,0 x 12,0	47,0 x 18,5	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16221 SYH-PY	16 x 2	3,80	43,0 x 12,0	49,0 x 20,5	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16222 SYH	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16222 SYH-LY	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16222 SYH-PY	16 x 2	5,55	61,0 x 15,8	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16223 FGH-PW	16 x 2	3,15	36,0 x 10,0	53,0 x 20,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16223 SBH-PW-N	16 x 2	3,15	36,0 x 10,0	53,0 x 20,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16223 SYH	16 x 2	3,15	36,0 x 10,0	53,0 x 20,0	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16223 SYH-PY	16 x 2	3,15	36,0 x 10,0	53,0 x 20,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16224 SYH	16 x 2	5,55	61,0 x 15,9	66,6 x 23,3	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 16226 SYH-LY	16 x 2	4,67	51,8 x 14,8	65,5 x 36,7	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16227 FGH-PW	16 x 2	4,35	65,0 x 17,2	85,0 x 30,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16227 SBH-PW-N	16 x 2	4,35	65,0 x 17,2	85,0 x 30,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16227 SYH-LY	16 x 2	4,35	65,0 x 17,2	85,0 x 30,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16228 FGH-PW	16 x 2	8,12	59,0 x 23,0	67,0 x 32,9	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16228 SBH-PW-N	16 x 2	8,12	59,0 x 23,0	67,0 x 32,9	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16481 FGH-PW	16 x 4	4,75	61,8 x 25,2	87,0 x 60,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 16481 SBH-PW-N	16 x 4	4,75	61,8 x 25,2	87,0 x 60,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 16481 SYH-LY	16 x 4	4,75	61,8 x 25,2	87,0 x 60,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 16481 SYH-LY-CYR22	16 x 4	4,75	61,8 x 25,2	87,0 x 60,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 20121 SY-LY	20 x 1	11,50	155,1 x 16,0	182,0 x 33,5	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-

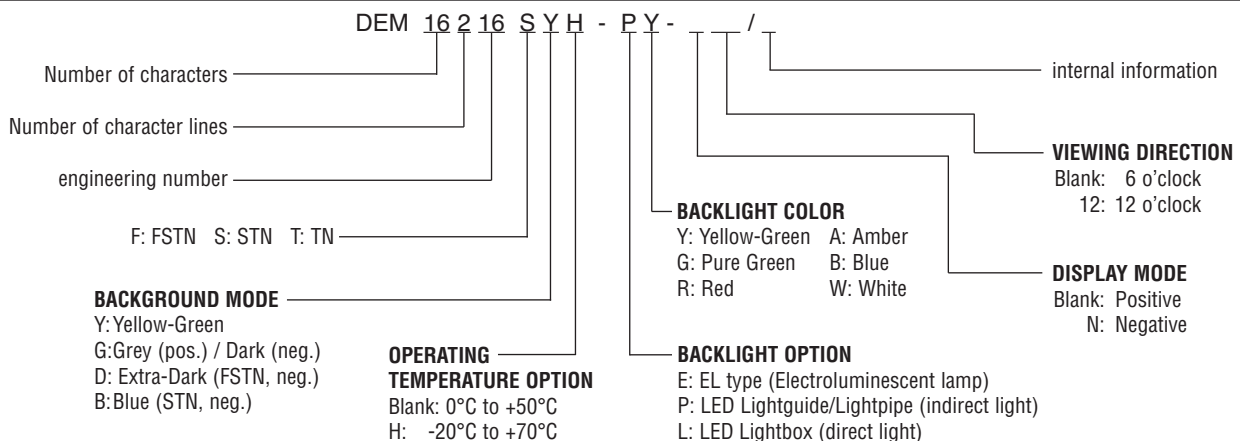
other models upon request

ALPHANUMERIC DOT MATRIX MODULES

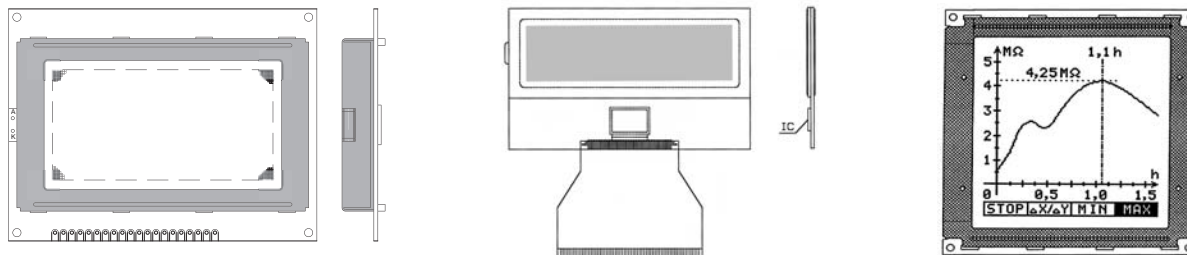
MODEL	DISPLAY FORMAT	CHARACTER HEIGHT	VIEWING AREA	MODULE SIZE	TECHNOLOGY	BACKLIGHT / COLOR	IMAGE (POS/NEG)	MPU INTERFACE	REMARKS
DEM 20121 SYH-LY	20 x 1	11,50	155,1 x 16,0	182,0 x 33,5	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 20230 SGH	20 x 2	5,55	77,0 x 16,5	81,0 x 28,3	STN-GREY	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 20230 FGH-PW	20 x 2	5,55	77,0 x 16,5	85,0 x 28,3	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 20230 SBH-PW-N	20 x 2	5,55	77,0 x 16,5	85,0 x 28,3	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 20230 SYH-PY	20 x 2	5,55	77,0 x 16,5	85,0 x 28,3	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 20231 FGH-PW	20 x 2	5,55	83,0 x 18,6	116,0 x 37,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 20231 SBH-PW-N	20 x 2	5,55	83,0 x 18,6	116,0 x 37,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 20231 SYH-PY	20 x 2	5,55	83,0 x 18,6	116,0 x 37,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 20231 SYH-PY-CYR22	20 x 2	5,55	83,0 x 18,6	116,0 x 37,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 20232 FGH-PW	20 x 2	8,30	123,2 x 23,0	146,0 x 43,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 20232 SBH-PW-N	20 x 2	8,30	123,2 x 23,0	146,0 x 43,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 20232 SYH-LY	20 x 2	8,30	123,2 x 23,0	146,0 x 43,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 20232 SYH-LY-CYR22	20 x 2	8,30	123,2 x 23,0	146,0 x 43,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 20233 SYH-LY	20 x 2	9,66	149,0 x 23,0	180,0 x 40,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 20485 FGH-PW	20 x 4	4,75	76,3 x 25,0	98,0 x 60,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 20485 SBH-PW-N	20 x 4	4,75	76,3 x 25,0	98,0 x 60,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 20485 SYH	20 x 4	4,75	76,3 x 25,0	98,0 x 60,0	STN-YELLOW/GREEN	NO BACKLIGHT	POSITIVE	8-Bit-MCU	-
DEM 20485 SYH-LY	20 x 4	4,75	76,3 x 25,0	98,0 x 60,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 20485 SYH-LY-CYR22	20 x 4	4,75	76,3 x 25,0	98,0 x 60,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 20486 FGH-PW	20 x 4	6,35	85,0 x 30,5	98,0 x 60,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 20486 SBH-PW-N	20 x 4	6,35	85,0 x 30,5	98,0 x 60,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 20486 SYH-LY	20 x 4	6,35	85,0 x 30,5	98,0 x 60,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 20487 FGH-PW	20 x 4	9,23	123,0 x 42,5	146,0 x 62,5	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 20487 SBH-PW-N	20 x 4	9,23	123,0 x 42,5	146,0 x 62,5	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 20487 SYH-LY	20 x 4	9,23	123,0 x 42,5	146,0 x 62,5	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 20487 SYH-LY-CYR22	20 x 4	9,23	123,0 x 42,5	146,0 x 62,5	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 20488 FGH-PW	20 x 4	4,03	60,0 x 22,0	77,0 x 47,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 20488 SBH-PW-N	20 x 4	4,03	60,0 x 22,0	77,0 x 47,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 20488 SYH-PY	20 x 4	4,03	60,0 x 22,0	77,0 x 47,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 24251 SYH-PY	24 x 2	5,55	83,0 x 18,6	116,0 x 37,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 24252 SYH-LY	24 x 2	6,35	94,4 x 18,2	118,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 40271 FGH-PW	40 x 2	5,69	155,1 x 16,0	182,0 x 33,5	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 40271 SBH-PW-N	40 x 2	5,69	155,1 x 16,0	182,0 x 33,5	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 40271 SYH-LY	40 x 2	5,69	155,1 x 16,0	182,0 x 33,5	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 40271 SYH-LY-CYR22	40 x 2	5,69	155,1 x 16,0	182,0 x 33,5	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	CYRILLIC
DEM 40491 FGH-PW	40 x 4	4,89	143,8 x 26,7	190,0 x 54,0	FSTN	LED / WHITE	POSITIVE	8-Bit-MCU	-
DEM 40491 SBH-PW-N	40 x 4	4,89	143,8 x 26,7	190,0 x 54,0	STN-BLUE	LED / WHITE	NEGATIVE	8-Bit-MCU	-
DEM 40491 SYH-LY	40 x 4	4,89	143,8 x 26,7	190,0 x 54,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-
DEM 40492 SYH-PY	40 x 4	8,48	253,8 x 56,6	288,3 x 77,5	STN-YELLOW/GREEN	LED / YELLOW/GREEN	POSITIVE	8-Bit-MCU	-

other models upon request

ORDERING INFORMATION



GRAPHIC MONOCHROME



MODEL	DISPLAY FORMAT	SIZE	DOT SIZES	VIEWING AREA	MODULE SIZE	TECHNOLOGY	BACKLIGHT / COLOR	MPU INTERFACE	IC
DEM 097032A SGH-PY	97 x 32	1,9"	0,35 x 0,34	43,5 x 21,5	49,7 x 31,3	STN-SILVERGREY	LED / YELLOW/GREEN	8-Bit-MCU	NT7534H
DEM 120064B FGH	120 x 64	1,9"	0,33 x 0,33	51,0 x 26,0	55,0 x 40,0	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	ST7565V
DEM 120064B FGH-PW	120 x 64	1,9"	0,33 x 0,33	51,0 x 26,0	55,0 x 42,0	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565V
DEM 120064B SBH-PW-N	120 x 64	1,9"	0,33 x 0,33	51,0 x 26,0	55,0 x 42,0	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565V
DEM 122032A SBH-PW-N	122 x 32	2,2"	0,40 x 0,45	60,5 x 18,5	80,0 x 36,0	STN-BLUE	LED / WHITE	8-Bit-MCU	PT6520
DEM 122032A SYH-LY	122 x 32	2,2"	0,40 x 0,45	60,5 x 18,5	80,0 x 36,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU	PT6520
DEM 122032B SYH-LY	122 x 32	2,2"	0,40 x 0,45	61,0 x 19,5	84,0 x 44,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU	PT6520
DEM 122032C FGH-PW-12	122 x 32	2,3"	0,43 x 0,52	59,0 x 23,0	67,0 x 32,9	FSTN	LED / WHITE	8-Bit-MCU	PT6520
DEM 122032C SBH-PW-N-12	122 x 32	2,3"	0,43 x 0,52	59,0 x 23,0	67,0 x 32,9	STN-BLUE	LED / WHITE	8-Bit-MCU	PT6520
DEM 128032A FGH	128 x 32	2,1"	0,37 x 0,37	54,8 x 16,6	57,8 x 27,8	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	ST7565R
DEM 128032A SBH-PW	128 x 32	2,1"	0,37 x 0,37	54,8 x 16,6	60,0 x 30,0	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128032A SBH-PW-N	128 x 32	2,1"	0,37 x 0,37	54,8 x 16,6	60,0 x 30,0	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128044A FGH-PW	128 x 44	1,2"	0,20 x 0,20	31,0 x 11,8	40,0 x 17,2	FSTN	LED / WHITE	SPI	ST7565P
DEM 128044A SBH-PW-N	128 x 44	1,2"	0,20 x 0,20	31,0 x 11,8	40,0 x 17,2	STN-BLUE	LED / WHITE	SPI	ST7565P
DEM 128064A FGH-P(RGB)	128 x 64	2,9"	0,48 x 0,48	71,7 x 39,0	93,0 x 70,0	FSTN	LED / RGB	8-Bit-MCU	SBN6400G
DEM 128064A FGH-P(RGB) (A-TOUCH)	128 x 64	2,9"	0,48 x 0,48	71,7 x 39,0	93,0 x 70,0	FSTN	LED / RGB	8-Bit-MCU	SBN6400G
DEM 128064A FGH-PW	128 x 64	2,9"	0,48 x 0,48	71,7 x 39,0	93,0 x 70,0	FSTN	LED / WHITE	8-Bit-MCU	SBN6400G
DEM 128064A FGH-PW (A-TOUCH)	128 x 64	2,9"	0,48 x 0,48	71,7 x 39,0	93,0 x 70,0	FSTN	LED / WHITE	8-Bit-MCU	SBN6400G
DEM 128064A SBH-PW-N	128 x 64	2,9"	0,48 x 0,48	71,7 x 39,0	93,0 x 70,0	STN-BLUE	LED / WHITE	8-Bit-MCU	SBN6400G
DEM 128064A SBH-PW-N (A-TOUCH)	128 x 64	2,9"	0,48 x 0,48	71,7 x 39,0	93,0 x 70,0	STN-BLUE	LED / WHITE	8-Bit-MCU	SBN6400G
DEM 128064A SYH-LY	128 x 64	2,9"	0,48 x 0,48	71,7 x 39,0	93,0 x 70,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU	SBN6400G
DEM 128064A SYH-LY (A-TOUCH)	128 x 64	2,9"	0,48 x 0,48	71,7 x 39,0	93,0 x 70,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU	SBN6400G
DEM 128064B FGH-PW	128 x 64	2,4"	0,40 x 0,40	60,0 x 32,6	75,0 x 52,7	FSTN	LED / WHITE	8-Bit-MCU	SBN6400G
DEM 128064B SBH-PW-N	128 x 64	2,4"	0,40 x 0,40	60,0 x 32,6	75,0 x 52,7	STN-BLUE	LED / WHITE	8-Bit-MCU	SBN6400G
DEM 128064B SYH	128 x 64	2,4"	0,40 x 0,40	60,0 x 32,6	75,0 x 52,7	STN-YELLOW/GREEN	NO BACKLIGHT	8-Bit-MCU	SBN6400G
DEM 128064B SYH-PY	128 x 64	2,4"	0,40 x 0,40	60,0 x 32,6	75,0 x 52,7	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU	SBN6400G
DEM 128064C FGH	128 x 64	1,2"	0,18 x 0,23	29,6 x 18,0	34,0 x 24,2	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	ST7565P
DEM 128064C FGH-PW	128 x 64	1,2"	0,18 x 0,23	29,6 x 18,0	38,0 x 24,2	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565P
DEM 128064C SBH-PW-N	128 x 64	1,2"	0,18 x 0,23	29,6 x 18,0	38,0 x 24,2	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565P
DEM 128064D FGH-EG	128 x 64	2,0"	0,28 x 0,35	44,5 x 30,0	54,0 x 50,0	FSTN	EL / GREEN	8-Bit-MCU	SBN6400G
DEM 128064E FGH-PW	128 x 64	2,9"	0,48 x 0,48	71,7 x 38,8	93,0 x 70,0	FSTN	LED / WHITE	SPI	ST7565R
DEM 128064E SBH-PW-N	128 x 64	2,9"	0,48 x 0,48	71,7 x 38,8	93,0 x 70,0	STN-BLUE	LED / WHITE	SPI	ST7565R
DEM 128064E SYH-PY	128 x 64	2,9"	0,48 x 0,48	71,7 x 38,8	93,0 x 70,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	SPI	ST7565R
DEM 128064F FGH	128 x 64	2,4"	0,40 x 0,40	60,6 x 33,1	66,6 x 47,0	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	ST7565R
DEM 128064F FGH-P(RGB)	128 x 64	2,4"	0,40 x 0,40	60,6 x 33,1	66,6 x 47,0	FSTN	LED / RGB	8-Bit-MCU; SPI	ST7565R
DEM 128064F FGH-PW	128 x 64	2,4"	0,40 x 0,40	60,6 x 33,1	66,6 x 47,0	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064F SBH-PW-N	128 x 64	2,4"	0,40 x 0,40	60,6 x 33,1	66,6 x 47,0	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064G FGH	128 x 64	1,5"	0,26 x 0,26	37,0 x 20,2	43,2 x 29,1	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	NT7534H
DEM 128064G FGH-P(RGB)	128 x 64	1,5"	0,26 x 0,26	37,0 x 20,2	45,2 x 29,1	FSTN	LED / RGB	8-Bit-MCU; SPI	NT7534H
DEM 128064G FGH-PW	128 x 64	1,5"	0,26 x 0,26	37,0 x 20,2	45,2 x 29,1	FSTN	LED / WHITE	8-Bit-MCU; SPI	NT7534H
DEM 128064G SBH-PW-N	128 x 64	1,5"	0,26 x 0,26	37,0 x 20,2	45,2 x 29,1	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	NT7534H
DEM 128064H FGH-PW	128 x 64	2,7"	0,39 x 0,55	62,0 x 44,0	78,0 x 70,0	FSTN	LED / WHITE	8-Bit-MCU	T6963C
DEM 128064H SBH-PW-N	128 x 64	2,7"	0,39 x 0,55	62,0 x 44,0	78,0 x 70,0	STN-BLUE	LED / WHITE	8-Bit-MCU	T6963C
DEM 128064H SYH-PY	128 x 64	2,7"	0,39 x 0,55	62,0 x 44,0	78,0 x 70,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU	T6963C
DEM 128064I FGH	128 x 64	1,9"	0,30 x 0,36	45,2 x 27,0	53,2 x 37,8	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	ST7565P
DEM 128064I FGH-P(RGB)	128 x 64	1,9"	0,30 x 0,36	45,2 x 27,0	55,2 x 39,8	FSTN	LED / RGB	8-Bit-MCU; SPI	ST7565P
DEM 128064I FGH-PW	128 x 64	1,9"	0,30 x 0,36	45,2 x 27,0	55,2 x 39,8	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565P
DEM 128064I SBH-PW-N	128 x 64	1,9"	0,30 x 0,36	45,2 x 27,0	55,2 x 39,8	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565P

other models upon request

GRAPHIC MONOCHROME

MODEL	DISPLAY FORMAT	SIZE	DOT SIZES	VIEWING AREA	MODULE SIZE	TECHNOLOGY	BACKLIGHT / COLOR	MPU INTERFACE	IC
DEM 128064J FGH	128 x 64	2,9"	0,48 x 0,48	70,7 x 38,8	76,1 x 50,6	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	ST7565P
DEM 128064J FGH-P(RGB)	128 x 64	2,9"	0,48 x 0,48	70,7 x 38,8	80,0 x 54,0	FSTN	LED / RGB	8-Bit-MCU; SPI	ST7565P
DEM 128064J FGH-PW	128 x 64	2,9"	0,48 x 0,48	70,7 x 38,8	80,0 x 54,0	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565P
DEM 128064N SBH-PW-N	128 x 64	2,9"	0,48 x 0,48	70,7 x 38,8	80,0 x 54,0	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565P
DEM 128064K FGH-PW	128 x 64	2,7"	0,45 x 0,49	65,5 x 38,0	77,3 x 51,7	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064K SBH-PW-N	128 x 64	2,7"	0,45 x 0,49	65,5 x 38,0	77,3 x 51,7	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064L FGH-PW	128 x 64	1,7"	0,25 x 0,33	37,0 x 28,0	45,0 x 40,0	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064L SBH-PW-N	128 x 64	1,7"	0,25 x 0,33	37,0 x 28,0	45,0 x 40,0	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064N FGH-PW	128 x 64	1,7"	0,28 x 0,28	41,0 x 22,0	52,2 x 32,7	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064N SBH-PW-N	128 x 64	1,7"	0,28 x 0,28	41,0 x 22,0	52,2 x 32,7	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064O FGH	128 x 64	2,0"	0,34 x 0,34	50,0 x 25,0	56,0 x 39,0	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	ST7565R
DEM 128064O FGH-PW	128 x 64	2,0"	0,34 x 0,34	50,0 x 25,0	58,2 x 41,7	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064O SBH-PW-N	128 x 64	2,0"	0,34 x 0,34	50,0 x 25,0	58,2 x 41,7	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064P FGH-PW	128 x 64	1,3"	0,20 x 0,23	31,4 x 20,3	37,0 x 30,3	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7567G
DEM 128064P SBH-PW-N	128 x 64	1,3"	0,20 x 0,23	31,4 x 20,3	37,0 x 30,3	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7567G
DEM 128064Q FGH	128 x 64	2,1"	0,33 x 0,40	50,6 x 31,0	54,6 x 44,2	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	UC1601
DEM 128064Q FGH-PW	128 x 64	2,1"	0,33 x 0,40	50,6 x 31,0	56,6 x 44,2	FSTN	LED / WHITE	8-Bit-MCU; SPI	UC1601
DEM 128064Q SBH-PW-N	128 x 64	2,1"	0,33 x 0,40	50,6 x 31,0	56,6 x 44,2	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	UC1601
DEM 128064Q SYH-PY	128 x 64	2,1"	0,33 x 0,40	50,6 x 31,0	56,6 x 44,2	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU; SPI	UC1601
DEM 128064S FGH	128 x 64	2,9"	0,48 x 0,48	70,7 x 38,8	76,6 x 50,6	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	ST7565S
DEM 128064S FGH-PW	128 x 64	2,9"	0,48 x 0,48	70,7 x 38,8	80,0 x 54,0	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565S
DEM 128064S SBH-PW-N	128 x 64	2,9"	0,48 x 0,48	70,7 x 38,8	80,0 x 54,0	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565S
DEM 128064S SYH-PY	128 x 64	2,9"	0,48 x 0,48	70,7 x 38,8	80,0 x 54,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU; SPI	ST7565S
DEM 128064T FGH	128 x 64	2,1"	0,34 x 0,34	51,0 x 28,5	55,0 x 40,5	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI	ST7565R
DEM 128064T FGH-PW	128 x 64	2,1"	0,34 x 0,34	51,0 x 28,5	56,6 x 44,2	FSTN	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064T SBH-PW-N	128 x 64	2,1"	0,34 x 0,34	51,0 x 28,5	56,6 x 44,2	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI	ST7565R
DEM 128064T SYH-PY	128 x 64	2,1"	0,34 x 0,34	51,0 x 28,5	56,6 x 44,2	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU; SPI	ST7565R
DEM 128128A SYH-LY	128 x 128	3,6"	0,48 x 0,48	69,0 x 69,0	88,4 x 88,4	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU	T6963C
DEM 128128B FGH-PW	128 x 128	3,9"	0,50 x 0,50	73,0 x 73,0	92,0 x 106,0	FSTN	LED / WHITE	8-Bit-MCU	T6963C
DEM 128128B FGH-PW (A-TOUCH)	128 x 128	3,9"	0,50 x 0,50	73,0 x 73,0	92,0 x 106,0	FSTN	LED / WHITE	8-Bit-MCU	T6963C
DEM 128128B FGH-PW (D-TOUCH)	128 x 128	3,9"	0,50 x 0,50	73,0 x 73,0	92,0 x 106,0	FSTN	LED / WHITE	8-Bit-MCU	T6963C
DEM 128128B SBH-PW-N	128 x 128	3,9"	0,50 x 0,50	73,0 x 73,0	92,0 x 106,0	STN-BLUE	LED / WHITE	8-Bit-MCU	T6963C
DEM 128128B SBH-PW-N (A-TOUCH)	128 x 128	3,9"	0,50 x 0,50	73,0 x 73,0	92,0 x 106,0	STN-BLUE	LED / WHITE	8-Bit-MCU	T6963C
DEM 128128B SBH-PW-N (D-TOUCH)	128 x 128	3,9"	0,50 x 0,50	73,0 x 73,0	92,0 x 106,0	STN-BLUE	LED / WHITE	8-Bit-MCU	T6963C
DEM 128128C FGH	128 x 128	2,1"	0,28 x 0,28	44,0 x 40,5	48,0 x 52,8	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI; I2C	UC1617
DEM 128128C FGH-PW	128 x 128	2,1"	0,28 x 0,28	44,0 x 40,5	48,0 x 52,8	FSTN	LED / WHITE	8-Bit-MCU; SPI; I2C	UC1617
DEM 128128C SBH-PW-N	128 x 128	2,1"	0,28 x 0,28	44,0 x 40,5	48,0 x 52,8	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI; I2C	UC1617
DEM 128128D FGH	128 x 128	3,2"	0,43 x 0,44	66,0 x 62,5	69,0 x 74,8	FSTN	NO BACKLIGHT	8-Bit-MCU; SPI; I2C	UC1617
DEM 128128D FGH-PW	128 x 128	3,2"	0,43 x 0,44	66,0 x 62,5	69,0 x 74,8	FSTN	LED / WHITE	8-Bit-MCU; SPI; I2C	UC1617
DEM 128128D SBH-PW-N	128 x 128	3,2"	0,43 x 0,44	66,0 x 62,5	69,0 x 74,8	STN-BLUE	LED / WHITE	8-Bit-MCU; SPI; I2C	UC1617
DEM 132038A FGH-PW	132 x 38	3,5"	0,60 x 0,57	91,5 x 26,5	104,0 x 37,5	FSTN	LED / WHITE	8-Bit-MCU	ST7565P
DEM 132038A SBH-PW-N	132 x 38	3,5"	0,60 x 0,57	91,5 x 26,5	104,0 x 37,5	STN-BLUE	LED / WHITE	8-Bit-MCU	ST7565P
DEM 160080A SYH	160 x 80	3,2"	0,41 x 0,41	76,0 x 40,0	108,5 x 56,0	STN-YELLOW/GREEN	NO BACKLIGHT	8-Bit-MCU	LC7981
DEM 160080A SYH-LY	160 x 80	3,2"	0,41 x 0,41	76,0 x 40,0	108,5 x 56,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU	LC7981
DEM 160160A FGH-PW	160 x 160	3,1"	0,34 x 0,34	61,5 x 61,5	76,5 x 71,5	FSTN	LED / WHITE	8-Bit-MCU	NT7701
DEM 160160A SBH-PW-N	160 x 160	3,1"	0,34 x 0,34	61,5 x 61,5	76,5 x 71,5	STN-BLUE	LED / WHITE	8-Bit-MCU	NT7701
DEM 160160B FGH-PW	160 x 160	3,1"	0,34 x 0,34	63,4 x 63,3	71,0 x 74,0	FSTN	LED / WHITE	8-Bit-MCU	S6B0794
DEM 240064B FGH-PW	240 x 64	5,2"	0,50 x 0,50	132,6 x 39,0	144,9 x 56,4	FSTN	LED / WHITE	8-Bit-MCU	ST7565P
DEM 240064B FGH-P(RGB)	240 x 64	5,2"	0,50 x 0,50	132,6 x 39,0	144,9 x 56,4	FSTN	LED / WHITE	8-Bit-MCU	ST7565P
DEM 240064B SBH-PW-N	240 x 64	5,2"	0,50 x 0,50	132,6 x 39,0	144,9 x 56,4	STN-BLUE	LED / WHITE	8-Bit-MCU	ST7565P
DEM 240064C FGH-PW	240 x 64	5,2"	0,49 x 0,49	135,0 x 40,0	180,0 x 65,0	FSTN	LED / WHITE	8-Bit-MCU	T6963C
DEM 240064C SBH-PW-N	240 x 64	5,2"	0,49 x 0,49	135,0 x 40,0	180,0 x 65,0	STN-BLUE	LED / WHITE	8-Bit-MCU	T6963C
DEM 240064C SYH-LY	240 x 64	5,2"	0,49 x 0,49	135,0 x 40,0	180,0 x 65,0	STN-YELLOW/GREEN	LED / YELLOW/GREEN	8-Bit-MCU	T6963C
DEM 240064D FGH	240 x 64	4,3"	0,44 x 0,47	111,0 x 37,0	114,6 x 49,5	FSTN	NO BACKLIGHT	8-Bit-MCU	UC1608
DEM 240064D FGH-PW	240 x 64	4,3"	0,44 x 0,47	111,0 x 37,0	120,2 x 55,1	FSTN	LED / WHITE	8-Bit-MCU	UC1608
DEM 240064D SBH-PW-N	240 x 64	4,3"	0,44 x 0,47	111,0 x 37,0	120,2 x 55,1	STN-BLUE	LED / WHITE	8-Bit-MCU	UC1608

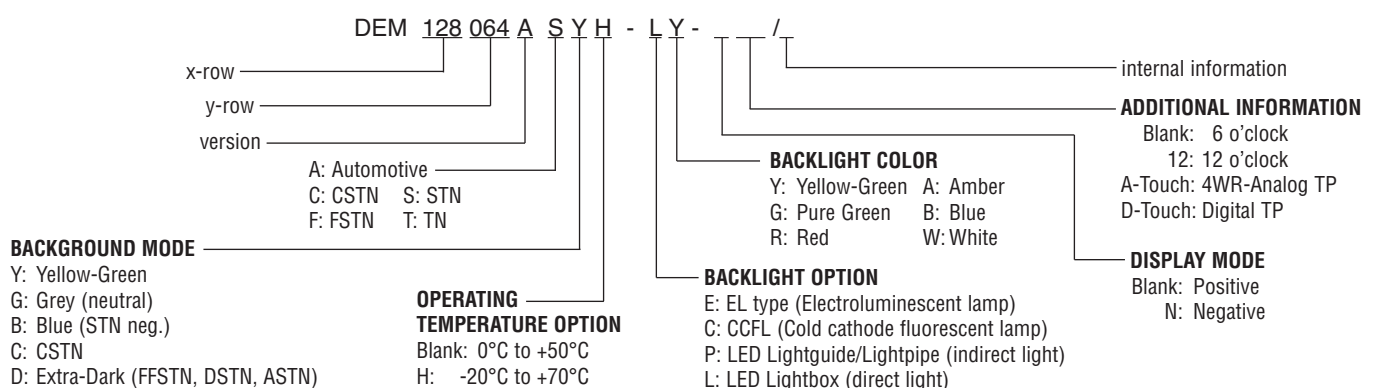
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GRAPHIC MONOCHROME

MODEL	DISPLAY FORMAT	SIZE	DOT SIZES	VIEWING AREA	MODULE SIZE	TECHNOLOGY	BACKLIGHT / COLOR	MPU INTERFACE	IC
DEM 240128A FGH	240 x 128	3,7"	0,32 x 0,32	92,0 x 53,0	96,0 x 65,0	FSTN	NO BACKLIGHT	8-Bit-MCU	ST7529G
DEM 240128A FGH-PB	240 x 128	3,7"	0,32 x 0,32	92,0 x 53,0	98,7 x 67,7	FSTN	LED / BLUE	8-Bit-MCU	ST7529G
DEM 240128A FGH-P(RGB)	240 x 128	3,7"	0,32 x 0,32	92,0 x 53,0	98,7 x 67,7	FSTN	LED / RGB	8-Bit-MCU	ST7529G
DEM 240128A FGH-PW	240 x 128	3,7"	0,32 x 0,32	92,0 x 53,0	98,7 x 67,7	FSTN	LED / WHITE	8-Bit-MCU	ST7529G
DEM 240128A SBH-PW-N	240 x 128	3,7"	0,32 x 0,32	92,0 x 53,0	98,7 x 67,7	STN-BLUE	LED / WHITE	8-Bit-MCU	ST7529G
DEM 240128B FYH-LY	240 x 128	3,3"	0,26 x 0,29	78,0 x 45,0	100,0 x 65,0	FSTN	LED / YELLOW/GREEN	8-Bit-MCU	NT7086
DEM 240128C FGH-PW	240 x 128	3,3"	0,26 x 0,29	78,0 x 45,0	100,0 x 65,0	FSTN	LED / WHITE	8-Bit-MCU	T6963C
DEM 240128C SBH-PW-N	240 x 128	3,3"	0,26 x 0,29	78,0 x 45,0	100,0 x 65,0	STN-BLUE	LED / WHITE	8-Bit-MCU	T6963C
DEM 240128D FGH-PW	240 x 128	4,8"	0,40 x 0,40	114,0 x 64,0	144,0 x 104,0	FSTN	LED / WHITE	8-Bit-MCU	T6963C
DEM 240128D FGH-PW (A-TOUCH)	240 x 128	4,8"	0,40 x 0,40	114,0 x 64,0	144,0 x 104,0	FSTN	LED / WHITE	8-Bit-MCU	T6963C
DEM 240128D FGH-PW (D-TOUCH)	240 x 128	4,8"	0,40 x 0,40	114,0 x 64,0	144,0 x 104,0	FSTN	LED / WHITE	8-Bit-MCU	T6963C
DEM 240128D SBH-PW-N	240 x 128	4,8"	0,40 x 0,40	114,0 x 64,0	144,0 x 104,0	STN-BLUE	LED / WHITE	8-Bit-MCU	T6963C
DEM 240128D SBH-PW-N (A-TOUCH)	240 x 128	4,8"	0,40 x 0,40	114,0 x 64,0	144,0 x 104,0	STN-BLUE	LED / WHITE	8-Bit-MCU	T6963C
DEM 240128D SBH-PW-N (D-TOUCH)	240 x 128	4,8"	0,40 x 0,40	114,0 x 64,0	144,0 x 104,0	STN-BLUE	LED / WHITE	8-Bit-MCU	T6963C
DEM 240128E FGH-PW	240 x 128	4,0"	0,33 x 0,37	92,0 x 60,5	101,3 x 92,3	FSTN	LED / WHITE	8-Bit-MCU	UC1608
DEM 240128E SBH-PW-N	240 x 128	4,0"	0,33 x 0,37	92,0 x 60,5	101,3 x 92,3	STN-BLUE	LED / WHITE	8-Bit-MCU	UC1608
DEM 240160A FGH-PW	240 x 160	2,5"	0,20 x 0,20	56,0 x 38,7	60,0 x 51,7	FSTN	LED / WHITE	8-Bit-MCU	UC1698
DEM 240160A SBH-PW-N	240 x 160	2,5"	0,20 x 0,20	56,0 x 38,7	60,0 x 51,7	STN-BLUE	LED / WHITE	8-Bit-MCU	UC1698
DEM 240160B FGH-PW	240 x 160	3,9"	0,33 x 0,30	99,0 x 57,5	105,5 x 67,2	FSTN	LED / WHITE	8-Bit-MCU	UC1698
DEM 240160B SBH-PW-N	240 x 160	3,9"	0,33 x 0,30	99,0 x 57,5	105,5 x 67,2	STN-BLUE	LED / WHITE	8-Bit-MCU	UC1698
DEM 320240A FGH-CW	320 x 240	5,7"	0,33 x 0,33	123,0 x 92,0	167,0 x 109,0	FSTN	CCFL / WHITE	8-Bit-MCU	RA8835
DEM 320240A SBH-CW-N	320 x 240	5,7"	0,33 x 0,33	123,0 x 92,0	167,0 x 109,0	STN-BLUE	CCFL / WHITE	8-Bit-MCU	RA8835
DEM 320240B FGH-PW	320 x 240	3,8"	0,23 x 0,23	81,8 x 63,0	94,7 x 73,3	FSTN	LED / WHITE	8-Bit-MCU	NT7702
DEM 320240B SBH-PW-N	320 x 240	3,8"	0,23 x 0,23	81,8 x 63,0	94,7 x 73,3	FSTN	LED / WHITE	8-Bit-MCU	NT7702
DEM 320240C FGH-PW	320 x 240	3,8"	0,23 x 0,23	79,8 x 60,6	94,7 x 73,3	FSTN	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240C FGH-PW (A-TOUCH)	320 x 240	3,8"	0,23 x 0,23	79,8 x 60,6	94,7 x 73,3	FSTN	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240C SBH-PW-N	320 x 240	3,8"	0,23 x 0,23	79,8 x 60,6	94,7 x 73,3	STN-BLUE	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240C SBH-PW-N (A-TOUCH)	320 x 240	3,8"	0,23 x 0,23	79,8 x 60,6	94,7 x 73,3	STN-BLUE	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240D FGH-CW	320 x 240	4,7"	0,27 x 0,27	104,0 x 79,3	151,6 x 96,0	FSTN	CCFL / WHITE	8-Bit-MCU	NT7086
DEM 320240D SBH-CW-N	320 x 240	4,7"	0,27 x 0,27	104,0 x 79,3	151,6 x 96,0	STN-BLUE	CCFL / WHITE	8-Bit-MCU	NT7086
DEM 320240E FGH-PW	320 x 240	4,7"	0,27 x 0,27	104,0 x 79,3	142,0 x 96,0	FSTN	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240E SBH-PW-N	320 x 240	4,7"	0,27 x 0,27	104,0 x 79,3	142,0 x 96,0	STN-BLUE	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240F FGH-CW	320 x 240	5,7"	0,33 x 0,33	122,0 x 92,0	163,0 x 109,0	FSTN	CCFL / WHITE	8-Bit-MCU	S1D13700
DEM 320240F SBH-CW-N	320 x 240	5,7"	0,33 x 0,33	122,0 x 92,0	163,0 x 109,0	STN-BLUE	CCFL / WHITE	8-Bit-MCU	S1D13700
DEM 320240G FGH-PW	320 x 240	3,8"	0,23 x 0,23	81,8 x 62,0	93,3 x 73,0	FSTN	LED / WHITE	8-Bit-MCU	RA8835
DEM 320240G FGH-PW (A-TOUCH)	320 x 240	3,8"	0,23 x 0,23	81,8 x 62,0	93,3 x 73,0	FSTN	LED / WHITE	8-Bit-MCU	RA8835
DEM 320240H FGH-PW	320 x 240	3,8"	0,23 x 0,23	78,8 x 59,6	92,3 x 71,3	FSTN	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240I FGH-PW	320 x 240	5,7"	0,33 x 0,33	122,0 x 92,0	156,5 x 109,0	FSTN	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240I FGH-PW (A-TOUCH)	320 x 240	5,7"	0,33 x 0,33	122,0 x 92,0	156,5 x 109,0	FSTN	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240I SBH-PW-N	320 x 240	5,7"	0,33 x 0,33	122,0 x 92,0	156,5 x 109,0	STN-BLUE	LED / WHITE	8-Bit-MCU	S1D13700
DEM 320240I SBH-PW-N (A-TOUCH)	320 x 240	5,7"	0,33 x 0,33	122,0 x 92,0	156,5 x 109,0	STN-BLUE	LED / WHITE	8-Bit-MCU	S1D13700

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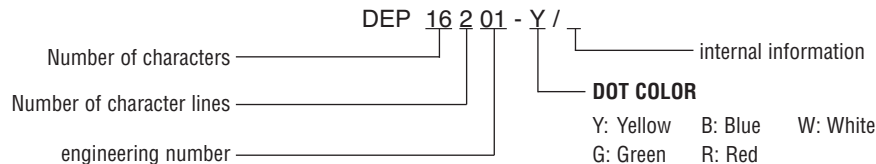


OLED ALPHANUMERIC MODULES

MODEL	DISPLAY FORMAT	CHARACTER HEIGHT	VIEWING AREA	MODULE SIZE	COLOR / LIFETIME	MPU INTERFACE	CHARACTER FONT
DEP 08201-W	8 x 2	5,56	38,0 x 16,0	58,0 x 32,0	WHITE / 50000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 08201-Y	8 x 2	5,56	38,0 x 16,0	58,0 x 32,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 12201-W	12 x 2	5,50	46,0 x 14,5	55,7 x 32,0	WHITE / 50000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 12201-Y	12 x 2	5,50	46,0 x 14,5	55,7 x 32,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 16101-W	16 x 1	6,35	66,0 x 16,0	80,0 x 36,0	WHITE / 50000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 16101-Y	16 x 1	6,35	66,0 x 16,0	80,0 x 36,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 16201-W	16 x 2	5,00	66,0 x 16,0	80,0 x 36,0	WHITE / 50000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 16201-Y	16 x 2	5,55	66,0 x 16,0	80,0 x 36,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 16202-W	16 x 2	5,55	66,0 x 16,0	84,0 x 44,0	WHITE / 50000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 16202-Y	16 x 2	5,55	66,0 x 16,0	84,0 x 44,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 16203-W	16 x 2	8,90	99,0 x 24,0	122,0 x 44,0	WHITE / 50000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 16203-Y	16 x 2	8,90	99,0 x 24,0	122,0 x 44,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 16204-W	16 x 2	5,57	58,2 x 13,5	68,5 x 17,5	WHITE / 50000 h	8-Bit-MCU; SPI; I2C	English-Japanese; English-European; English-Cyrillic
DEP 16204-Y	16 x 2	5,57	58,2 x 13,5	68,5 x 17,5	YELLOW / 100000 h	8-Bit-MCU; SPI; I2C	English-Japanese; English-European; English-Cyrillic
DEP 16205-Y	16 x 2	2,84	36,0 x 10,0	53,0 x 20,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 20201-W	20 x 2	5,00	85,0 x 18,6	116,0 x 37,0	WHITE / 50000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 20201-Y	20 x 2	5,55	85,0 x 18,6	116,0 x 37,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 20202-Y	20 x 2	9,66	149,0 x 23,0	180,0 x 40,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 20203-Y	20 x 2	5,57	75,5 x 13,5	84,5 x 19,2	YELLOW / 100000 h	8-Bit-MCU; SPI; I2C	English-Japanese; English-European; English-Cyrillic
DEP 20401-W	20 x 4	4,75	77,0 x 25,2	98,0 x 60,0	WHITE / 50000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 20401-Y	20 x 4	4,75	77,0 x 25,2	98,0 x 60,0	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 20402-Y	20 x 4	4,77	72,4 x 22,8	84,5 x 27,5	YELLOW / 100000 h	8-Bit-MCU; SPI; I2C	English-Japanese; English-European; English-Cyrillic
DEP 40201-W	40 x 2	5,55	154,0 x 16,5	182,0 x 38,5	WHITE / 50000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic
DEP 40201-Y	40 x 2	5,55	154,4 x 16,5	182,0 x 38,5	YELLOW / 100000 h	8-Bit-MCU	English-Japanese; English-European; English-Cyrillic

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ORDERING INFORMATION OLED ALPHANUMERIC



OLED GRAPHIC MODULES

MODEL	DISPLAY FORMAT	SIZE	ACTIVE AREA	MODULE SIZE	COLOR / LIFETIME	MPU INTERFACE	IC	MODULE TYPE
DEP 048064A-Y	48 x 64	0,70"	10,54 x 14,70	13,90 x 22,00	YELLOW / 50000 h	SPI	SSD1306BZ	COG
DEP 050016A-W	50 x 16	1,30"	29,96 x 11,16	58,00 x 32,00	WHITE / 50000 h	8-Bit-MCU	t.b.d.	COB
DEP 050016A-Y	50 x 16	1,30"	29,96 x 11,16	58,00 x 32,00	YELLOW / 100000 h	8-Bit-MCU	t.b.d.	COB
DEP 064032A-W	64 x 32	0,49"	11,18 x 5,58	14,50 x 11,60	WHITE / 20000 h	SPI	SSD1306BZ	COG
DEP 064032A-Y	64 x 32	0,49"	11,18 x 5,58	14,50 x 11,60	YELLOW / 50000 h	SPI	SSD1306BZ	COG
DEP 064048A-Y	64 x 48	0,70"	13,42 x 10,06	18,46 x 18,10	YELLOW / 50000 h	8-Bit-MCU; SPI; I2C	SSD1306BZ	COG
DEP 096016A-W	96 x 16	0,84"	21,10 x 3,50	29,10 x 9,20	WHITE / 20000 h	SPI	SSD1306BZ	COG
DEP 096016A-Y	96 x 16	0,84"	21,10 x 3,50	29,10 x 9,20	YELLOW / 50000 h	SPI	SSD1306BZ	COG
DEP 096032B-W	96 x 32	0,80"	19,18 x 6,38	28,50 x 11,50	WHITE / 30000 h	SPI	SSD1307	COG
DEP 096064A-Y	96 x 64	1,10"	23,49 x 15,65	29,00 x 21,00	YELLOW / 50000 h	8-Bit-MCU	SSD1325	TAB+FPC
DEP 100016A-W	100 x 16	2,40"	59,95 x 11,15	80,00 x 36,00	WHITE / 50000 h	8-Bit-MCU	t.b.d.	COB
DEP 100016A-Y	100 x 16	2,40"	59,95 x 11,15	80,00 x 36,00	YELLOW / 100000 h	8-Bit-MCU	t.b.d.	COB
DEP 100016B-W	100 x 16	3,70"	95,94 x 17,86	122,00 x 44,00	WHITE / 50000 h	8-Bit-MCU	t.b.d.	COB
DEP 100016B-Y	100 x 16	3,70"	95,94 x 17,86	122,00 x 44,00	YELLOW / 100000 h	8-Bit-MCU	t.b.d.	COB
DEP 100016C-W	100 x 16	2,60"	64,95 x 11,15	116,00 x 37,00	WHITE / 50000 h	8-Bit-MCU	t.b.d.	COB
DEP 100016C-Y	100 x 16	2,60"	64,95 x 11,15	116,00 x 37,00	YELLOW / 100000 h	8-Bit-MCU	t.b.d.	COB

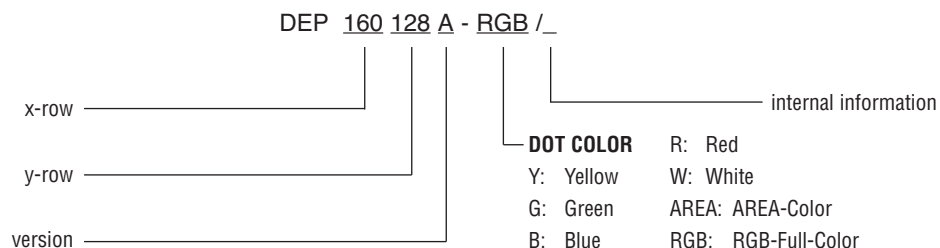
other models upon request

OLED GRAPHIC MODULES

MODEL	DISPLAY FORMAT	SIZE	ACTIVE AREA	MODULE SIZE	COLOR / LIFETIME	MPU INTERFACE	IC	MODULE TYPE
DEP 100032A-W	100 x 32	2,40"	58,95 x 19,15	98,00 x 60,00	WHITE / 50000 h	8-Bit-MCU	t.b.d.	COB
DEP 100032A-Y	100 x 32	2,40"	58,95 x 19,15	98,00 x 60,00	YELLOW / 100000 h	8-Bit-MCU	t.b.d.	COB
DEP 128032A-B	128 x 32	2,20"	55,02 x 13,10	62,00 x 24,00	BLUE / 20000 h	8-Bit-MCU; SPI	SSD1305	COG
DEP 128032A-W	128 x 32	2,20"	55,02 x 13,10	62,00 x 24,00	WHITE / 20000 h	8-Bit-MCU; SPI	SSD1305	COG
DEP 128032A-Y	128 x 32	2,20"	55,02 x 13,10	62,00 x 24,00	YELLOW / 50000 h	8-Bit-MCU; SPI	SSD1305	COG
DEP 128032B-W	128 x 32	0,90"	22,38 x 5,58	30,00 x 11,50	WHITE / 20000 h	SPI	SSD1306BZ	COG
DEP 128032C-W	128 x 32	1,00"	25,58 x 6,38	29,80 x 15,40	WHITE / 21000 h	8-Bit-MCU	LD7032	COG
DEP 128032D-W	128 x 32	1,00"	25,58 x 6,38	33,40 x 14,50	WHITE / 20000 h	8-Bit-MCU; SPI; I2C	SSD1306BZ	COG
DEP 128032D-Y	128 x 32	1,00"	25,58 x 6,38	33,40 x 14,50	YELLOW / 50000 h	8-Bit-MCU; SPI; I2C	SSD1306BZ	COG
DEP 128064A-W	128 x 64	1,50"	35,06 x 17,52	45,24 x 29,14	WHITE / 20000 h	8-Bit-MCU; SPI	SSD1305	COG
DEP 128064A-Y	128 x 64	1,50"	35,06 x 17,52	45,24 x 29,14	YELLOW / 50000 h	8-Bit-MCU; SPI	SSD1305	COG
DEP 128064B1-Y	128 x 64	2,40"	55,01 x 27,48	75,00 x 52,70	YELLOW / 50000 h	8-Bit-MCU	SSD1309	COB
DEP 128064C-AREA	128 x 64	1,00"	21,74 x 11,20	26,70 x 19,26	AREA-COLOR / 20000 h	8-Bit-MCU; SPI; I2C	SSD1306BZ	COG
DEP 128064C-W	128 x 64	1,00"	21,74 x 10,86	26,70 x 19,26	WHITE / 20000 h	8-Bit-MCU; SPI; I2C	SSD1306BZ	COG
DEP 128064C-Y	128 x 64	1,00"	21,74 x 10,86	26,70 x 19,26	YELLOW / 50000 h	8-Bit-MCU; SPI; I2C	SSD1306BZ	COG
DEP 128064D-W	128 x 64	1,30"	29,42 x 14,20	34,50 x 23,00	WHITE / 20000 h	8-Bit-MCU; SPI; I2C	SH1106G	COG
DEP 128064D-Y	128 x 64	1,30"	29,42 x 14,20	34,50 x 23,00	YELLOW / 50000 h	8-Bit-MCU; SPI; I2C	SH1106G	COG
DEP 128064E-W	128 x 64	1,60"	36,45 x 18,21	41,80 x 27,90	WHITE / 20000 h	8-Bit-MCU; SPI; I2C	SSD1325	COG
DEP 128064E-Y	128 x 64	1,60"	36,45 x 18,21	41,80 x 27,90	YELLOW / 50000 h	8-Bit-MCU; SPI; I2C	SSD1325	COG
DEP 128064G-Y	128 x 64	2,40"	55,01 x 27,49	75,00 x 52,70	YELLOW / 66000 h	8-Bit-MCU	SSD1303	COB
DEP 128064H-Y	128 x 64	2,40"	55,01 x 27,49	89,70 x 47,20	YELLOW / 66000 h	8-Bit-MCU	SSD1303	COB
DEP 128064J-Y	128 x 64	1,60"	36,45 x 18,21	41,90 x 28,00	YELLOW / 40000 h	8-Bit-MCU; SPI	SSD1325	COG
DEP 128064K-Y	128 x 64	2,70"	61,41 x 30,69	70,90 x 41,86	YELLOW / 30000 h	8-Bit-MCU; SPI; I2C	SSD1305	TAB+FPC
DEP 128096A-B	128 x 96	1,30"	26,86 x 20,14	33,00 x 26,80	BLUE / 8600 h	8-Bit-MCU; SPI	SSD1329	TAB+FPC
DEP 128096A-W	128 x 96	1,30"	26,86 x 20,14	33,00 x 26,80	WHITE / 16000 h	8-Bit-MCU; SPI	SSD1329	TAB+FPC
DEP 128128B-W	128 x 128	1,50"	26,86 x 26,86	33,80 x 36,50	WHITE / 20000 h	8-Bit-MCU; SPI; I2C	SSD1327Z	COG
DEP 128128B-Y	128 x 128	1,50"	26,86 x 26,86	33,80 x 36,50	YELLOW / 50000 h	8-Bit-MCU; SPI; I2C	SSD1327Z	COG
DEP 128128C3-RGB	128 x 128	1,50"	26,28 x 26,28	33,50 x 33,50	RGB / 14000 h	8-Bit-MCU	SSD1351	TAB+FPC
DEP 128128C3-RGB (A-TOUCH)	128 x 128	1,50"	26,28 x 26,28	33,50 x 33,50	RGB / 14000 h	8-Bit-MCU	SSD1351	TAB+FPC
DEP 128128D-W	128 x 128	1,50"	26,86 x 26,86	33,80 x 36,50	WHITE / 12000 h	8-Bit-MCU	SSD1327Z	COG
DEP 128128D-Y	128 x 128	1,50"	26,86 x 26,86	33,80 x 36,50	YELLOW / 40000 h	8-Bit-MCU	SSD1327Z	COG
DEP 128128E-W	128 x 128	1,2" (Ø)	30,00 x 30,00	36,98 x 41,23	WHITE / 20000 h	8-Bit-MCU; SPI; I2C	SSD1327Z	COG
DEP 128128E-Y	128 x 128	1,2" (Ø)	30,00 x 30,00	36,98 x 41,23	YELLOW / 50000 h	8-Bit-MCU; SPI; I2C	SSD1327Z	COG
DEP 160128A1-RGB	160 x 128	1,80"	35,02 x 28,01	42,70 x 33,40	RGB / 16000 h	8-Bit-MCU; SPI	SSD1353	TAB+FPC
DEP 256064A1-W	256 x 64	2,80"	69,10 x 17,26	84,00 x 25,80	WHITE / 20000 h	8-Bit-MCU; SPI	SSD1322	TAB+FPC
DEP 256064A1-Y	256 x 64	2,80"	69,10 x 17,26	84,00 x 25,80	YELLOW / 50000 h	8-Bit-MCU; SPI	SSD1322	TAB+FPC
DEP 256064B-W	256 x 64	3,20"	79,09 x 19,76	87,40 x 28,50	WHITE / 19000 h	8-Bit-MCU; SPI	SSD1322	TAB+FPC
DEP 256064B-Y	256 x 64	3,20"	79,09 x 19,76	87,40 x 28,50	YELLOW / 30000 h	8-Bit-MCU; SPI	SSD1322	TAB+FPC
DEP 256064C-Y	256 x 64	3,10"	76,78 x 19,18	88,00 x 27,80	YELLOW / 50000 h	8-Bit-MCU; SPI	SSD1322	TAB+FPC
DEP 256064C-W	256 x 64	3,10"	76,78 x 19,18	88,00 x 27,80	WHITE / 20000 h	8-Bit-MCU; SPI	SSD1322	TAB+FPC
DEP 256064E-G	256 x 64	5,50"	135,65 x 33,89	146,00 x 45,00	GREEN / 40000 h	8-Bit-MCU; SPI	SSD1322	TAB+FPC

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ORDERING INFORMATION OLED GRAPHIC



GRAPHIC COLOR TFT



MODEL	SIZE	DISPLAY FORMAT	ACTIVE AREA	MODULE SIZE	BRIGHTNESS/ LIFETIME	MPU INTERFACE	IC CONTROLLER DRIVER	REMARKS
DEM 096096A VMH-PW-N	1,1"	96xRGBx96	19,9 x 19,9	25,4 x 28,1	440 cd/m ² 30000 h	SPI	ST7735S	No Touch
DEM 128128A TMH-PW-N	1,4"	128xRGBx128	25,5 x 26,5	30,7 x 36,0	450 cd/m ² 20000 h	8-Bit-MCU; SPI	ST7735S	No Touch
DEM 128160A TMH-PW-N	1,8"	128xRGBx160	28,0 x 35,0	36,3 x 47,3	310 cd/m ² 50000 h	16-Bit-MCU	ST7735R	No Touch
DEM 128160A1 TMH-PW-N	1,8"	128xRGBx160	28,0 x 35,0	36,3 x 47,8	350 cd/m ² 50000 h	16-Bit-MCU	ST7735S	No Touch
DEM 128160B TMH-PW-N	1,8"	128xRGBx160	28,0 x 35,0	34,7 x 46,7	350 cd/m ² 30000 h	8-Bit-MCU	ILI9163V	No Touch
DEM 128160C TMH-PW-N	1,8"	128xRGBx160	28,0 x 35,0	34,7 x 46,7	350 cd/m ² 30000 h	SPI	ILI9163V	No Touch
DEM 240320O VMH-PW-N	2,0"	240xRGBx320	30,6 x 40,8	37,7 x 51,3	300 cd/m ² 30000 h	18-Bit-RGB; SPI	ILI9341V	No Touch
DEM 240320A3 TMH-PW-N	2,2"	240xRGBx320	33,5 x 44,6	40,3 x 58,1	280 cd/m ² 50000 h	16-Bit-MCU	HX8347-I	No Touch
DEM 320240P TMH-PW-N	2,3"	320xRGBx240	46,7 x 35,1	50,9 x 45,8	300 cd/m ² 30000 h	6-Bit-RGB(Serial); SPI	ILI9342C	No Touch
DEM 240320B TMH-PW-N (A-TOUCH)	2,4"	240xRGBx320	36,7 x 49,0	42,7 x 60,3	250 cd/m ² 50000 h	8-Bit-MCU; SPI	ILI9325D	4-Wire-Resistive
DEM 240320E TMH-PW-N (A-TOUCH)	2,4"	240xRGBx320	36,7 x 49,0	42,7 x 60,3	250 cd/m ² 50000 h	8-Bit-MCU; 16-Bit-MCU; SPI	R61580	4-Wire-Resistive
DEM 240320J1 TMH-PW-N	2,4"	240xRGBx320	36,7 x 49,0	42,7 x 60,3	250 cd/m ² 50000 h	16-Bit-MCU; 8-Bit-MCU; SPI	ST7789V	No Touch
DEM 240320J1 TMH-PW-N (A-TOUCH)	2,4"	240xRGBx320	36,7 x 49,0	42,7 x 60,3	200 cd/m ² 50000 h	16-Bit-MCU; 8-Bit-MCU; SPI	ST7789V	4-Wire-Resistive
DEM 240320D TMH-PW-N	2,8"	240xRGBx320	43,2 x 57,6	50,0 x 68,8	280 cd/m ² 50000 h	SPI	HX8347-G	No Touch
DEM 240320D TMH-PW-N (A-TOUCH)	2,8"	240xRGBx320	43,2 x 57,6	50,0 x 69,2	250 cd/m ² 50000 h	SPI	HX8347-G	4-Wire-Resistive
DEM 240320K TMH-PW-N	2,8"	240xRGBx320	43,2 x 57,6	50,0 x 69,2	480 cd/m ² 30000 h	18-Bit-RGB; 18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9341V	No Touch
DEM 240320K TMH-PW-N (A-TOUCH)	2,8"	240xRGBx320	43,2 x 57,6	50,0 x 69,2	400 cd/m ² 30000 h	18-Bit-RGB; 18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9341V	4-Wire-Resistive
DEM 240320K1 TMH-PW-N	2,8"	240xRGBx320	43,2 x 57,6	50,0 x 69,2	480 cd/m ² 50000 h	18-Bit-RGB; 18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9341V	No Touch
DEM 240320K1 TMH-PW-N (A-TOUCH)	2,8"	240xRGBx320	43,2 x 57,6	50,0 x 69,2	400 cd/m ² 50000 h	18-Bit-RGB; 18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9341V	4-Wire-Resistive
DEM 240320L TMH-PW-N	2,8"	240xRGBx320	43,2 x 57,6	50,0 x 69,2	350 cd/m ² 20000 h	9-Bit-MCU	ILI9341V	No Touch
DEM 240400A TMH-PW-N	3,0"	240xRGBx320	38,9 x 64,8	45,0 x 77,0	320 cd/m ² 50000 h	16-Bit-MCU	ILI9327	No Touch
DEM 240320H TMH-PW-N	3,2"	240xRGBx320	48,6 x 64,8	57,5 x 79,2	360 cd/m ² 50000 h	16-Bit-MCU	HX8347-A	No Touch
DEM 240320H TMH-PW-N (A-TOUCH)	3,2"	240xRGBx320	48,6 x 64,8	57,5 x 79,2	300 cd/m ² 50000 h	16-Bit-MCU	HX8347-A	4-Wire-Resistive
DEM 240320I TMH-PW-N	3,2"	240xRGBx320	48,6 x 64,8	57,5 x 79,2	180 cd/m ² 50000 h	18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9341V	No Touch
DEM 240320I TMH-PW-N (A-TOUCH)	3,2"	240xRGBx320	48,6 x 64,8	57,5 x 79,2	180 cd/m ² 50000 h	18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9341V	4-Wire-Resistive
DEM 240320M TMH-PW-N	3,2"	240xRGBx320	47,9 x 63,8	54,1 x 73,7	350 cd/m ² 30000 h	18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9341V	No Touch
DEM 240320M TMH-PW-N (A-TOUCH)	3,2"	240xRGBx320	47,9 x 63,8	54,1 x 73,7	270 cd/m ² 30000 h	18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9341V	4-Wire-Resistive
DEM 240320P TMH-PW-N	3,5"	240xRGBx320	52,6 x 70,1	59,9 x 81,1	400 cd/m ² 30000 h	18-Bit-RGB; SPI	ILI9341V	No Touch

other models upon request

GRAPHIC COLOR TFT

MODEL	SIZE	DISPLAY FORMAT	ACTIVE AREA	MODULE SIZE	BRIGHTNESS/ LIFETIME	MPU INTERFACE	IC CONTROLLER DRIVER	REMARKS
DEM 320240A TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	77,0 x 64,0	300 cd/m ² 20000 h	8-Bit-MCU	SSD2119	No Touch
DEM 320240A TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	77,0 x 64,0	250 cd/m ² 20000 h	8-Bit-MCU	SSD2119	4-Wire-Resistive
DEM 320240B TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	350 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	No Touch
DEM 320240B TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	280 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	4-Wire-Resistive
DEM 320240C TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	800 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	No Touch
DEM 320240C TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	640 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	4-Wire-Resistive
DEM 320240C TMH-PW-N (C-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	700 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	Projective Capacitive
DEM 320240C TMH-PW-N (C1-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	700 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	Projective Capacitive
DEM 320240C TMX-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	800 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	No Touch
DEM 320240C TMX-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	640 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	Extreme Temperature 4-Wire-Resistive
DEM 320240C TTH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	800 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	Extreme Temperature No Touch
DEM 320240F TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	300 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	No Touch
DEM 320240F TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	250 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	4-Wire-Resistive
DEM 320240G1 TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	300 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	No Touch
DEM 320240G1 TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	240 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	4-Wire-Resistive
DEM 320240G1 TMH-PW-N (C-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	240 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	Projective Capacitive
DEM 320240J TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	92,0 x 78,4	200 cd/m ² 50000 h	8-Bit-MCU	FPGA + Timing Controller	No Touch
DEM 320240J TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	92,0 x 78,4	200 cd/m ² 50000 h	8-Bit-MCU	FPGA + Timing Controller	4-Wire-Resistive
DEM 320240K TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	250 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	HX8238A	No Touch
DEM 320240K TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	220 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	HX8238A	4-Wire-Resistive
DEM 320240L TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	450 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238A	No Touch
DEM 320240L TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	350 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238A	4-Wire-Resistive
DEM 320240L TMH-PW-N (C-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	350 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8238A	Projective Capacitive
DEM 320240M TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	79,1 x 66,4	450 cd/m ² 50000 h	8-Bit-MCU	SSD1963	No Touch
DEM 320240N TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	400 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	t.b.d.	No Touch
DEM 320240N TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	300 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	t.b.d.	4-Wire-Resistive
DEM 320240N TMH-PW-N (C-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	330 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	t.b.d.	Projective Capacitive
DEM 320240O VMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	420 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	No Touch
DEM 320240O VMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	330 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	HX8238D	4-Wire-Resistive
DEM 320240Q TMH-PW-N	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	380 cd/m ² 50000 h	18-Bit-RGB; 18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	SSD2119	No Touch
DEM 320240Q TMH-PW-N (A-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	300 cd/m ² 50000 h	18-Bit-RGB; 18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	SSD2119	4-Wire-Resistive
DEM 320240Q TMH-PW-N (C-TOUCH)	3,5"	320xRGBx240	70,1 x 52,6	76,9 x 63,9	300 cd/m ² 50000 h	18-Bit-RGB; 18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	SSD2119	Projective Capacitive
DEM 320480B VMH-PW-N	3,5"	320xRGBx480	49,0 x 73,4	55,7 x 85,0	420 cd/m ² 30000 h	18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9488	No Touch
DEM 320480B VMH-PW-N (A-TOUCH)	3,5"	320xRGBx480	49,0 x 73,4	55,7 x 85,0	330 cd/m ² 30000 h	18-Bit-MCU; 16-Bit-MCU; 8-Bit-MCU; SPI	ILI9488	4-Wire-Resistive
DEM 480640A TMH-PW-N	3,5"	480xRGBx640	53,3 x 71,0	64,0 x 85,0	400 cd/m ² 20000 h	18-Bit-RGB	HX8363-A	No Touch
DEM 480640A TMH-PW-N (A-TOUCH)	3,5"	480xRGBx640	53,3 x 71,0	64,0 x 85,0	360 cd/m ² 20000 h	18-Bit-RGB	HX8363-A	4-Wire-Resistive
DEM 240320N TMH-PW-N	3,8"	240xRGBx320	57,6 x 76,8	73,0 x 93,3	350 cd/m ² 30000 h	8-Bit-MCU	ILI9341V	No Touch
DEM 480128A VMH-PW-N	3,9"	480xRGBx128	95,0 x 25,3	105,5 x 40,6	600 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	No Touch
DEM 480800A2 VMH-PW-N	4,0"	480xRGBx800	51,8 x 86,4	56,1 x 95,5	250 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB; SPI	ILI9806	No Touch
DEM 640480B VMH-PW-N	4,0"	640xRGBx480	82,6 x 61,9	89,3 x 73,1	480 cd/m ² 30000 h	MIPI	OTM1288A	No Touch

other models upon request

GRAPHIC COLOR TFT

MODEL	SIZE	DISPLAY FORMAT	ACTIVE AREA	MODULE SIZE	BRIGHTNESS/ LIFETIME	MPU INTERFACE	IC CONTROLLER DRIVER	REMARKS
DEM 480272A1 TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	500 cd/m ² 20000 h	8-Bit-MCU	SSD1963	No Touch
DEM 480272A1 TMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	400 cd/m ² 20000 h	8-Bit-MCU	SSD1963	4-Wire-Resistive
DEM 480272B VMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	700 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	No Touch
DEM 480272C TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	120,0 x 85,0	200 cd/m ² 50000 h	8-Bit-MCU	FPGA + Timing Controller	No Touch
DEM 480272C TMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	120,0 x 85,0	200 cd/m ² 50000 h	8-Bit-MCU	FPGA + Timing Controller	4-Wire-Resistive
DEM 480272D TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	1000 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	No Touch
DEM 480272D1 TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	1000 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	No Touch
DEM 480272D1 TMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	800 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	4-Wire-Resistive
DEM 480272D1 TMH-PW-N (C-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	880 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	Projective Capacitive
DEM 480272D1 TMX-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	1000 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	No Touch
DEM 480272D1 TTH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	1000 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	Extreme Temperature No Touch
DEM 480272E TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	250 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	HX8257A	No Touch
DEM 480272E TMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	220 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	HX8257A	4-Wire-Resistive
DEM 480272F1 TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	500 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	No Touch
DEM 480272F1 TMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	400 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	4-Wire-Resistive
DEM 480272G TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	420 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8257A	No Touch
DEM 480272G TMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	350 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8257A	4-Wire-Resistive
DEM 480272G1 TMH-PW-N (C-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	350 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	ILI6480BQ	Projective Capacitive
DEM 480272H TMX-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	400 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	ILI6480BQ	No Touch
DEM 480272I TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	250 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	ILI6480BQ	Extreme Temperature No Touch
DEM 480272I TMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	220 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	ILI6480BQ	4-Wire-Resistive
DEM 480272J VMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	420 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	No Touch
DEM 480272J VMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	330 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	OTA5180A	4-Wire-Resistive
DEM 480272K TMX-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	650 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8257A	No Touch
DEM 480272K TMX-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	500 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	HX8257A	Extreme Temperature 4-Wire-Resistive
DEM 480272L TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	550 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	ILI6480BQ	Extreme Temperature No Touch
DEM 480272L TMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	440 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	ILI6480BQ	4-Wire-Resistive
DEM 480272L TMH-PW-N (C-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	125,0 x 86,0	440 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	ILI6480BQ	Projective Capacitive
DEM 480272M TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	106,7 x 69,9	450 cd/m ² 50000 h	8-Bit-MCU	SSD1963	No Touch
DEM 480272N TMH-PW-N	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	500 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	t.b.d.	No Touch
DEM 480272N TMH-PW-N (A-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	350 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	t.b.d.	4-Wire-Resistive
DEM 480272N TMH-PW-N (C-TOUCH)	4,3"	480xRGBx272	95,0 x 53,9	105,5 x 67,2	400 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	t.b.d.	Projective Capacitive
DEM 800320A1 TMH-PW-N	4,6"	800xRGBx320	108,0 x 43,2	120,7 x 57,1	520 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480D TMH-PW-N	5,0"	800xRGBx480	108,0 x 64,8	118,5 x 77,5	250 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480D TMH-PW-N (A-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	118,5 x 77,5	200 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480E TMH-PW-N	5,0"	800xRGBx480	108,0 x 64,8	118,5 x 77,5	500 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480E TMH-PW-N (A-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	118,5 x 77,5	400 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480E TMH-PW-N (C-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	118,5 x 77,5	420 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 800480E1 TMH-PW-N (C1-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	118,5 x 77,5	425 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 800480Q TMH-PW-N	5,0"	800xRGBx480	108,0 x 64,8	120,7 x 75,8	450 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch

other models upon request

GRAPHIC COLOR TFT

MODEL	SIZE	DISPLAY FORMAT	ACTIVE AREA	MODULE SIZE	BRIGHTNESS/ LIFETIME	MPU INTERFACE	IC CONTROLLER DRIVER	REMARKS
DEM 800480Q TMH-PW-N (A-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	120,7 x 75,8	330 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480Q TMH-PW-N (C-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	120,7 x 75,8	350 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 800480Q1 TMH-PW-N	5,0"	800xRGBx480	108,0 x 64,8	120,7 x 75,8	500 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480Q1 TMH-PW-N (A-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	120,7 x 75,8	450 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480Q1 TMH-PW-N (C-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	120,7 x 75,8	400 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 800480R TMH-PW-N	5,0"	800xRGBx480	108,0 x 64,8	120,7 x 75,8	450 cd/m ² 20000 h	16-Bit-MCU; 8-Bit-MCU	SSD1963	No Touch
DEM 800480S TMH-PW-N	5,0"	800xRGBx480	108,0 x 64,8	118,5 x 77,5	1000 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480S TMH-PW-N (A-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	118,5 x 77,5	800 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480S TMH-PW-N (C-TOUCH)	5,0"	800xRGBx480	108,0 x 64,8	118,5 x 77,5	850 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 480128C TMH-PW-N	5,2"	480xRGBx128	127,1 x 33,9	140,4 x 49,9	500 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	ST7252	No Touch
DEM 480128D TMH-PW-N	5,2"	480xRGBx128	127,1 x 33,9	180,0 x 65,0	500 cd/m ² 50000 h	16-Bit-MCU; 8-Bit-MCU	SSD1963	No Touch
DEM 320240D TMH-PW-N	5,7"	320xRGBx240	115,2 x 86,4	144,0 x 104,6	700 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	No Touch
DEM 320240D TMH-PW-N (A-TOUCH)	5,7"	320xRGBx240	115,2 x 86,4	144,0 x 104,6	560 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 320240D TMH-PW-N (C-TOUCH)	5,7"	320xRGBx240	115,2 x 86,4	144,0 x 104,6	630 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 320240D TMH-PW-N (C1-TOUCH)	5,7"	320xRGBx240	115,2 x 86,4	144,0 x 104,6	630 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 320240E TMH-PW-N	5,7"	320xRGBx240	115,2 x 86,4	144,0 x 104,6	1200 cd/m ² 30000 h	18-Bit-RGB	Source + Gate	No Touch
DEM 320240I TMH-PW-N	5,7"	320xRGBx240	115,2 x 86,4	144,0 x 104,6	450 cd/m ² 40000 h	8-Bit-MCU	SSD1963	No Touch
DEM 320240I TMH-PW-N (A-TOUCH)	5,7"	320xRGBx240	115,2 x 86,4	144,0 x 104,6	360 cd/m ² 40000 h	8-Bit-MCU	SSD1963	4-Wire-Resistive
DEM 320240I TMH-PW-N (C-TOUCH)	5,7"	320xRGBx240	115,2 x 86,4	144,0 x 104,6	450 cd/m ² 40000 h	8-Bit-MCU	SSD1963	Projective Capacitive
DEM 320240I TMH-PW-N (C1-TOUCH)	5,7"	320xRGBx240	115,2 x 86,4	144,0 x 104,6	450 cd/m ² 50000 h	8-Bit-MCU	SSD1964	Projective Capacitive
DEM 640480A TMH-PW-N	5,7"	640xRGBx480	112,9 x 84,7	160,0 x 109,0	200 cd/m ² 50000 h	8-Bit-MCU	FPGA + Timing Controller	No Touch
DEM 640480C TMH-PW-N	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	380 cd/m ² 40000 h	18-Bit-RGB	Source + Gate	No Touch
DEM 640480C TMH-PW-N (A-TOUCH)	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	290 cd/m ² 40000 h	18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 640480D TMH-PW-N	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	900 cd/m ² 50000 h	LVDS	Source + Gate	No Touch
DEM 640480D TMH-PW-N (A-TOUCH)	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	700 cd/m ² 50000 h	LVDS	Source + Gate	4-Wire-Resistive
DEM 640480D TMH-PW-N (C-TOUCH)	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	720 cd/m ² 50000 h	LVDS	Source + Gate	Projective Capacitive
DEM 640480D TMH-PW-N (C1-TOUCH)	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	720 cd/m ² 50000 h	LVDS	Source + Gate	Projective Capacitive
DEM 640480D TMX-PW-N	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	900 cd/m ² 50000 h	LVDS	Source + Gate	No Touch Extreme Temperature
DEM 640480D TMX-PW-N (A-TOUCH)	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	700 cd/m ² 50000 h	LVDS	Source + Gate	4-Wire-Resistive Extreme Temperature
DEM 640480E TMH-PW-N	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	900 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	No Touch
DEM 640480E TMH-PW-N (A-TOUCH)	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	700 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 640480E TMH-PW-N (C-TOUCH)	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	720 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 640480E TMH-PW-N (C1-TOUCH)	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	720 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 640480E TMX-PW-N	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	900 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	No Touch Extreme Temperature
DEM 640480E TMX-PW-N (A-TOUCH)	5,7"	640xRGBx480	115,2 x 86,4	144,0 x 104,6	700 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	4-Wire-Resistive Extreme Temperature
DEM 4801280A VMH-PW-N	6,8"	480xRGBx1280	60,2 x 160,6	66,1 x 171,8	700 cd/m ² 30000 h	MIPI	EK79030	No Touch
DEM 800480A TMH-PW-N	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	500 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	No Touch
DEM 800480A TMH-PW-N (A-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	400 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480A TMX-PW-N	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	500 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	No Touch Extreme Temperature
DEM 800480A TMX-PW-N (A-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	400 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	4-Wire-Resistive Extreme Temperature

other models upon request

GRAPHIC COLOR TFT

MODEL	SIZE	DISPLAY FORMAT	ACTIVE AREA	MODULE SIZE	BRIGHTNESS/ LIFETIME	MPU INTERFACE	IC CONTROLLER DRIVER	REMARKS
DEM 800480B TMH-PW-N	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	500 cd/m ² 40000 h	LVDS	Source + Gate	No Touch
DEM 800480B TMH-PW-N (A-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	400 cd/m ² 40000 h	LVDS	Source + Gate	4-Wire-Resistive
DEM 800480B TMX-PW-N	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	500 cd/m ² 40000 h	LVDS	Source + Gate	No Touch
DEM 800480B TMX-PW-N (A-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	400 cd/m ² 40000 h	LVDS	Source + Gate	Extreme Temperature 4-Wire-Resistive
DEM 800480C TMH-PW-N	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	1000 cd/m ² 50000 h	LVDS	Source + Gate	Extreme Temperature No Touch
DEM 800480C TMH-PW-N (A-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	800 cd/m ² 50000 h	LVDS	Source + Gate	4-Wire-Resistive
DEM 800480C TMH-PW-N (C-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	880 cd/m ² 50000 h	LVDS	Source + Gate	Projective Capacitive
DEM 800480C TMX-PW-N	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	1000 cd/m ² 50000 h	LVDS	Source + Gate	No Touch
DEM 800480C TMX-PW-N (A-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	800 cd/m ² 50000 h	LVDS	Source + Gate	Extreme Temperature 4-Wire-Resistive
DEM 800480F TMH-PW-N	7,0"	800xRGBx480	153,6 x 86,6	165,0 x 104,0	350 cd/m ² 40000 h	18-Bit-RGB	Source + Gate	Extreme Temperature No Touch
DEM 800480F TMH-PW-N (A-TOUCH)	7,0"	800xRGBx480	153,6 x 86,6	165,0 x 104,0	280 cd/m ² 20000 h	18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480I TMH-PW-N	7,0"	800xRGBx480	154,1 x 85,9	164,9 x 100,0	250 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480I TMH-PW-N (A-TOUCH)	7,0"	800xRGBx480	154,1 x 85,9	164,9 x 100,0	220 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480J1 TMH-PW-N	7,0"	800xRGBx480	153,8 x 85,6	164,9 x 100,0	450 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480J1 TMH-PW-N (A-TOUCH)	7,0"	800xRGBx480	153,8 x 85,6	164,9 x 100,0	350 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480J TMH-PW-N (C-TOUCH)	7,0"	800xRGBx480	154,1 x 85,9	164,9 x 100,0	350 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 800480K TMX-PW-N	7,0"	800xRGBx480	154,1 x 85,9	164,9 x 100,0	400 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480M TMH-PW-N	7,0"	800xRGBx480	154,1 x 85,9	164,9 x 100,0	450 cd/m ² 50000 h	8-Bit-MCU	Source + Gate	Extreme Temperature No Touch
DEM 800480N TMH-PW-N	7,0"	800xRGBx480	154,1 x 85,9	165,0 x 100,0	400 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480N TMH-PW-N (A-TOUCH)	7,0"	800xRGBx480	154,1 x 85,9	165,0 x 100,0	280 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480N1 TMH-PW-N (C-TOUCH)	7,0"	800xRGBx480	154,1 x 85,9	165,0 x 100,0	320 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 800480O VMH-PW-N	7,0"	800xRGBx480	153,8 x 85,6	165,0 x 104,0	420 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800480O VMH-PW-N (A-TOUCH)	7,0"	800xRGBx480	153,8 x 85,6	165,0 x 104,0	330 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480P TMH-PW-N	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	1000 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	No Touch
DEM 800480P TMH-PW-N (A-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	800 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800480P TMH-PW-N (C-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	880 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 800480P TMH-PW-N (C1-TOUCH)	7,0"	800xRGBx480	152,4 x 91,4	166,6 x 109,4	880 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	Projective Capacitive
DEM 1024600A TMH-PW-N	7,0"	1024xRGBx600	153,6 x 90,0	165,7 x 105,4	460 cd/m ² 30000 h	LVDS	Source + Gate	No Touch
DEM 1024600A TMH-PW-N (A-TOUCH)	7,0"	1024xRGBx600	153,6 x 90,0	165,7 x 105,4	360 cd/m ² 30000 h	LVDS	Source + Gate	4-Wire-Resistive
DEM 800480L TMX-PW-N	8,0"	800xRGBx480	176,6 x 99,4	192,8 x 116,9	450 cd/m ² 20000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800600A TMH-PW-N	8,0"	800xRGBx600	162,0 x 121,5	183,0 x 141,0	400 cd/m ² 40000 h	18-Bit-RGB	Source + Gate	Extreme Temperature No Touch
DEM 800600A TMH-PW-N (A-TOUCH)	8,0"	800xRGBx600	162,0 x 121,5	183,0 x 141,0	320 cd/m ² 40000 h	18-Bit-RGB	Source + Gate	4-Wire-Resistive
DEM 800600B TMH-PW-N	8,0"	800xRGBx600	162,0 x 121,5	176,3 x 138,2	1300 cd/m ² 50000 h	18-Bit-RGB	Source + Gate	No Touch
DEM 800600C TMH-PW-N	8,0"	800xRGBx600	162,0 x 121,5	183,0 x 141,0	400 cd/m ² 40000 h	LVDS	Source + Gate	No Touch
DEM 800600C TMH-PW-N (A-TOUCH)	8,0"	800xRGBx600	162,0 x 121,5	183,0 x 141,0	320 cd/m ² 40000 h	LVDS	Source + Gate	4-Wire-Resistive
DEM 800600D TMH-PW-N	8,0"	800xRGBx600	162,0 x 121,5	176,3 x 138,2	1300 cd/m ² 50000 h	LVDS	Source + Gate	No Touch
DEM 800600D TMH-PW-N (A-TOUCH)	8,0"	800xRGBx600	162,0 x 121,5	176,3 x 138,2	1000 cd/m ² 50000 h	LVDS	Source + Gate	4-Wire-Resistive
DEM 1024600C VMH-PW-N	8,0"	1024xRGBx600	176,6 x 99,4	192,8 x 116,9	500 cd/m ² 30000 h	LVDS	Source + Gate	No Touch
DEM 1600480A VMH-PW-N	8,0"	1600xRGBx480	194,4 x 58,3	208,0 x 73,0	450 cd/m ² 30000 h	LVDS	HX8249-A	No Touch
DEM 1024105A TMH-PW-N	9,0"	1024xRGBx105	230,4 x 23,6	240,0 x 37,8	400 cd/m ² 30000 h	24-Bit-RGB; 18-Bit-RGB	ILI6150+ILI5120	No Touch

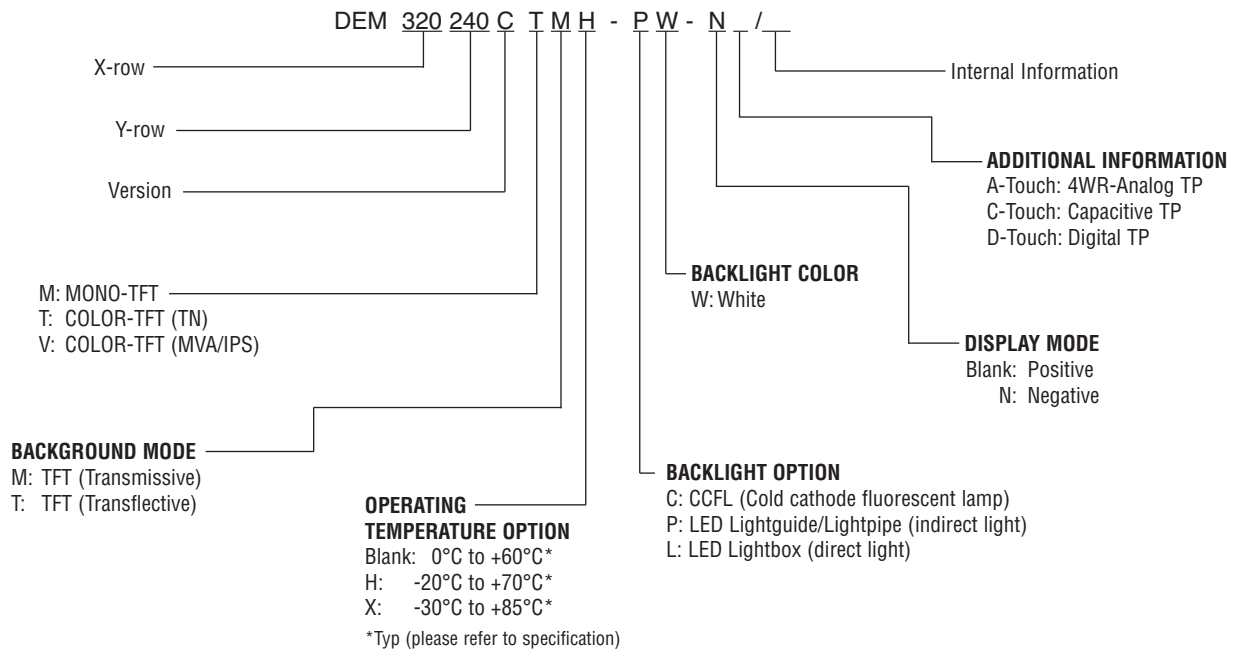
other models upon request

GRAPHIC COLOR TFT

MODEL	SIZE	DISPLAY FORMAT	ACTIVE AREA	MODULE SIZE	BRIGHTNESS/ LIFETIME	MPU INTERFACE	IC CONTROLLER DRIVER	REMARKS
DEM 1024600B TMH-PW-N	10,1"	1024xRGBx600	222,7 x 125,3	235,0 x 143,0	500 cd/m ² 30000 h	LVDS	t.b.d.	No Touch
DEM 1024600F TMH-PW-N	10,1"	1024xRGBx600	222,7 x 125,3	235,0 x 143,0	500 cd/m ² 30000 h	LVDS	t.b.d.	No Touch
DEM 1280800A TMH-PW-N	10,1"	1280xRGBx800	217,0 x 135,6	230,9 x 154,3	1000 cd/m ² 50000 h	LVDS	t.b.d.	No Touch
DEM 1280800B TMH-PW-N	10,1"	1280xRGBx800	217,0 x 135,6	230,9 x 154,3	1500 cd/m ² 50000 h	LVDS	t.b.d.	No Touch
DEM 1280480A VMH-PW-N	10,3"	1280xRGBx480	243,8 x 91,4	265,2 x 109,8	600 cd/m ² 30000 h	LVDS	t.b.d.	No Touch
DEM 800600E TMH-PW-N	10,4"	800xRGBx600	211,2 x 158,4	243,0 x 185,6	500 cd/m ² 40000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800600F TMH-PW-N	10,4"	800xRGBx600	211,2 x 158,4	243,0 x 185,6	1300 cd/m ² 50000 h	24-Bit-RGB; 18-Bit-RGB	Source + Gate	No Touch
DEM 800600G TMH-PW-N	10,4"	800xRGBx600	211,2 x 158,4	243,0 x 185,6	600 cd/m ² 40000 h	LVDS	Source + Gate	No Touch
DEM 800600G TMH-PW-N (A-TOUCH)	10,4"	800xRGBx600	211,2 x 158,4	243,0 x 185,6	500 cd/m ² 40000 h	LVDS	Source + Gate	4-Wire-Resistive
DEM 800600H TMH-PW-N	10,4"	800xRGBx600	211,2 x 158,4	243,0 x 185,6	1300 cd/m ² 50000 h	LVDS	Source + Gate	No Touch
DEM 800600H TMH-PW-N (A-TOUCH)	10,4"	800xRGBx600	211,2 x 158,4	243,0 x 185,6	1200 cd/m ² 50000 h	LVDS	Source + Gate	4-Wire-Resistive
DEM 1280120A TMH-PW-N	11,0"	1280xRGBx120	280,3 x 27,0	288,9 x 38,6	750 cd/m ² 30000 h	18-Bit-RGB	HX8232B + HX8655C	No Touch
DEM 1024768A TMX-PW-N	12,1"	1024xRGBx768	245,8 x 184,3	260,5 x 204,0	600 cd/m ² 50000 h	LVDS	Source + Gate	No Touch Extreme Temperature
DEM 1280720A VMH-PW-N	12,8"	1280xRGBx720	283,2 x 159,3	300,8 x 179,5	500 cd/m ² 30000 h	LVDS	t.b.d.	No Touch
DEM 1920720A VMX-PW-N	12,3"	1920xRGBx720	292,0 x 109,5	313,8 x 132,2	700 cd/m ² 30000 h	LVDS	t.b.d.	No Touch Extreme Temperature

other models upon request

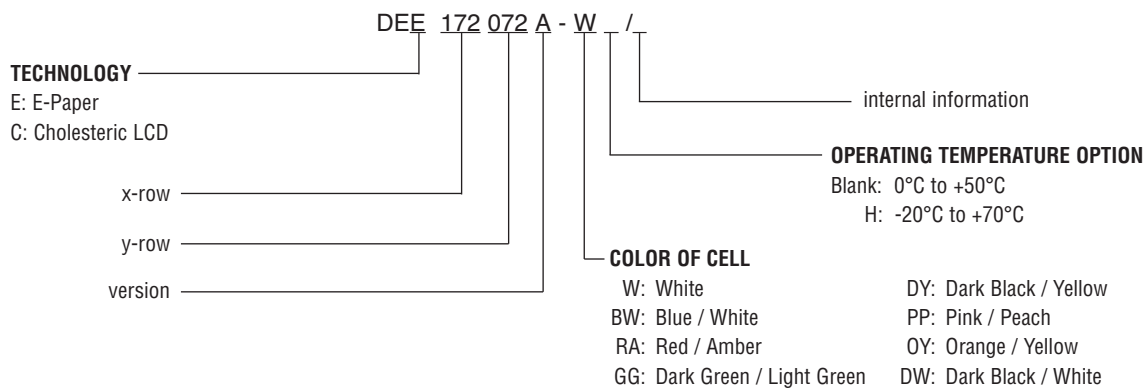
ORDERING INFORMATION GRAPHIC COLOR TFT



BISTABLE DISPLAYS

MODEL	DIAGONAL SIZE	DISPLAY FORMAT	COLOR	VIEWING AREA	MODULE SIZE	TECHNOLOGY	INTERFACE	IC CONTROLLER DRIVER
DEC 128064A BWH	2,7"	128 x 64	BW - Blue-White	61,00 x 31,40	65,00 x 43,40	BCD (Bistable Cholesteric Display)	SPI	SSD1603
DEE 128296A-W	2,9"	128 x 296	W - White	29,05 x 66,89	36,70 x 79,00	EPD (E-Paper)	SPI	t.b.d.
DEE 172072A-W	2,0"	172 x 72	W - White	48,16 x 20,16	59,20 x 29,20	EPD (E-Paper)	SPI	t.b.d.
DEE 200200A-W	1,6"	200 x 200	W - White	27,60 x 27,60	31,80 x 37,20	EPD (E-Paper)	SPI	t.b.d.
DEE 250122A-W	2,1"	250 x 122	W - White	23,80 x 48,55	29,20 x 59,20	EPD (E-Paper)	SPI	t.b.d.
DEE 800480A-W	3,5"	800 x 480	W - White	76,16 x 45,70	89,11 x 52,50	EPD (E-Paper)	8-Bit-MCU	t.b.d.
DEE 800480A3-W	3,5"	800 x 480	W - White	76,16 x 45,70	89,11 x 52,50	EPD (E-Paper)	8-Bit-MCU	t.b.d.
DEE 800600A-W	4,3"	800 x 600	W - White	88,00 x 66,00	104,00 x 74,60	EPD (E-Paper)	8-Bit-MCU	t.b.d.
DEE 800600A3-W	4,3"	800 x 600	W - White	88,00 x 66,00	104,00 x 74,60	EPD (E-Paper)	8-Bit-MCU	t.b.d.
DEE 600800A-W	6,0"	600 x 800	W - White	90,60 x 122,40	101,80 x 138,40	EPD (E-Paper)	8-Bit-MCU	t.b.d.
DEE 7681024A-W	8,0"	768 x 1024	W - White	122,11 x 162,82	134,11 x 178,56	EPD (E-Paper)	8-Bit-MCU	t.b.d.
DEE D0601A1-W	1,0"	1 x 6 DIGIT	W - White	23,54 x 6,54	28,54 x 14,84	EPD (E-Paper)	SPI	t.b.d.

ORDERING INFORMATION



TOUCH-PANELS

Display Elektronik GmbH offers a wide range of touch panel technologies at attractive prices.

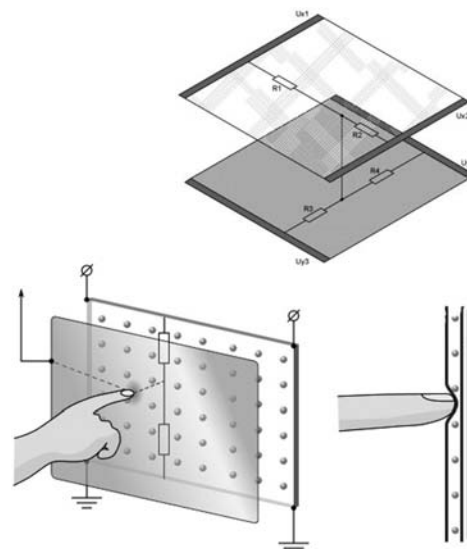
We can support the following touch technologies depending on your project requirements:

- 4-Wire-Resistive Touch
- 5-Wire-Resistive Touch
- 8-Wire-Resistive Touch
- Capacitive Touch (Multi-Touch, Projective Capacitive, PCAP, PCT)
- IR Infrared
- SAW (Surface Acoustic Wave)

We can support to customize the cover glass with your required sizes and special prints based on existing touch panel products or your full customized solution.

Full customized Touch panel solutions can be realized in low volumes at economic prices.

Please contact us for further information.



LED-DISPLAYS

Display Elektronik GmbH has most standard LED-products available at attractive prices.

Display Elektronik GmbH offers the following LED-products:

- 7-SEGMENT-MODULES (monochrome)
- ALPHANUMERIC-MODULES (monochrome)
- DOT-MATRIX (multi-color)
- SMD-LEDs and LED-lamps
- 7-SEGMENT-MODULES (multi-color)
- DOT-MATRIX (monochrome)
- DOT-MATRIX (full-color-RGB)
- LED-BACKLIGHT FOR LCD-DISPLAYS

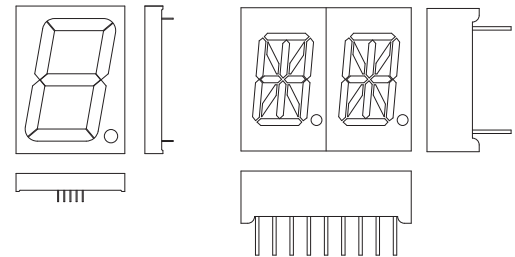
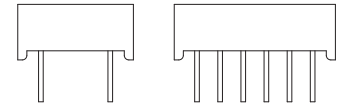
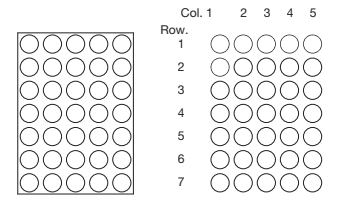
In general we offer the following colors:

- Orange (GaAsP/GaP) $\lambda \sim 625 \text{ nm}$
- Yellow (GaAsP/GaP) $\lambda \sim 590 \text{ nm}$
- Pure Green (InGaN/SiC) $\lambda \sim 525 \text{ nm}$
- Red (AlGaAs/GaAs) $\lambda \sim 643 \text{ nm}$
- Blue (InGaN/SiC) $\lambda \sim 465 \text{ nm}$
- Yellow Green (AlInGaP/GaAs) $\lambda \sim 570 \text{ nm}$
- Red (AlGaInP/GaAs) $\lambda \sim 630 \text{ nm}$
- Yellow (AlGaInP/GaAs) $\lambda \sim 590 \text{ nm}$
- Orange (AlGaInP/GaAs) $\lambda \sim 605 \text{ nm}$
- ... others on request

LED-modules

- Partially available with black or grey surface
- High quality and low cost
- I.C. compatibility
- Long lifetime
- High intensity and high reliability
- Low power requirements
- Easy assembly

Customized LED-modules can be manufactured in low volume at economic prices.

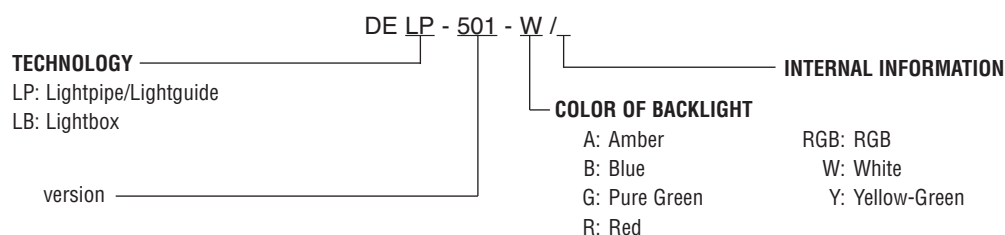


LED-BACKLIGHTS

MODEL	COLOR OPTIONS	SUITABLE LCD's	VIEWING AREA	OUTLINE	LIFETIME
DE LP-501-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE113; DE114; DE119; DE121; DE129; DE152; DE159; DE161; DE170; DE183; DE303	46,80 x 19,00	55,75 x 22,86 x 2,50	50.000 h
DE LP-502-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 156	131,00 x 32,00	145,20 x 40,73 x 2,50	50.000 h
DE LP-503-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 112	22,08 x 17,90	33,00 x 22,86 x 2,50	50.000 h
DE LP-504-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 123	25,13 x 12,43	35,50 x 17,78 x 2,50	50.000 h
DE LP-505-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 120; DE 131; DE 182; DE 184	66,80 x 27,00	75,00 x 30,48 x 2,50	50.000 h
DE LP-506-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 158; DE 160	88,50 x 32,75	99,00 x 38,10 x 2,50	50.000 h
DE LP-507-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 130	75,93 x 25,13	86,30 x 30,48 x 2,50	50.000 h
DE LP-508-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 122; DE 133	64,49 x 17,51	75,00 x 22,86 x 2,50	50.000 h
DE LP-510-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 125	88,50 x 17,51	99,00 x 22,86 x 2,50	50.000 h
DE LP-511-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 117	22,10 x 10,00	29,00 x 11,80 x 2,50	50.000 h
DE LP-512-x	A-Amber; B-Blue; R-Red; RGB-RGB; W-White; Y:Yellow-Green	DE 127; DE 128; DE 151; DE 301	48,00 x 13,00	57,75 x 17,78 x 2,50	50.000 h

other models upon request

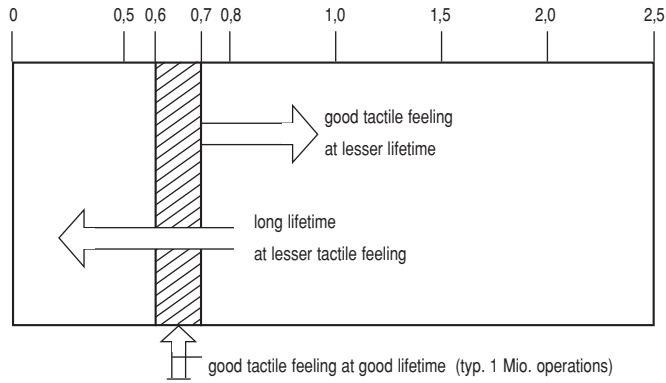
ORDERING INFORMATION



GENERAL FEATURES OF SILICONE RUBBER KEYPADS

The flexibility of silicone material allows a wide variety of shapes. Low pricing for mass production is an additional advantage of this technology.

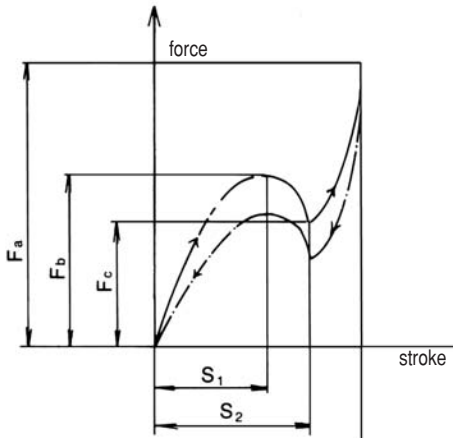
TACTILE FEELING



actuation force	tactile feeling	lifetime (operations)
50 g	very good	1 Mio.
70 g		1 Mio.
90 g		1 Mio.
100 g		1 Mio.
120 g	good	1 Mio.
150 g		560 K
170 g		450 K
200 g	less good	50K Typ (100 K Max)

This table shows typical data

DIAGRAM


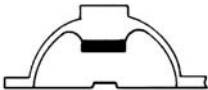
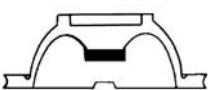
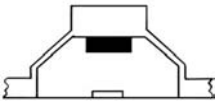
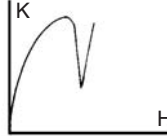
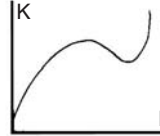
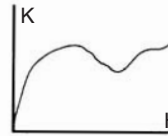
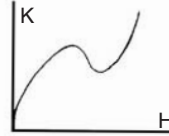
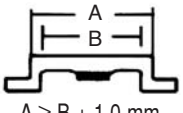
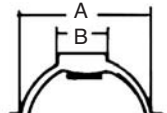
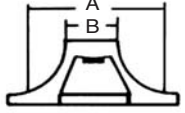


- Fa: overall force
- Fb: switching force
- Fc: tactile feeling
- S₁: point of return
- S₂: switching stroke

GENERAL PARAMETER

- stroke: 0,2 mm 5 mm
- switching current: 30 mA bei 12 VDC/0,5 sek.
- operating temperature: -25°C + 250°C
- switching force: 10 g 200 g
- lifetime (operations): 1 Mio.
- contact resistance: < 100 Ω
- bouncing: < 5 m sek.
- insulation resistance: 100 MΩ at 500 VDC

DIRECTIONS FOR KEYS

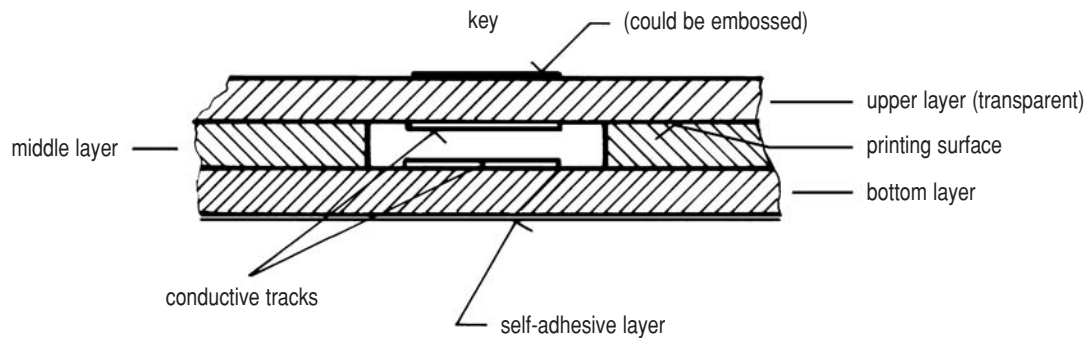
KEYTYPE	A - flat type	B - bell type	C - double bell type	D - cone type
				
pressure/stroke curve				
relation between pressure (g) and stroke (mm)	pressure (g) 30 - 200 stroke (mm) 0,3 - 7	pressure (g) 30 - 80 80 - 160 160 - 250	stroke (mm) 1,0 - 1,8 1,6 - 2,8 2,6 - 3,5	pressure (g) 30 - 200 stroke (mm) 0,3 - 7
outer dimensions (A) at a defined key head diameter (B)	 A ≥ B + 1,0 mm		A ≥ B + 2,0 mm	 A ≥ B ± 2,0 mm

GENERAL DESCRIPTION OF MEMBRANE SWITCHES

Membrane switches are keypads with an integrated (mainly flexible) PCB. In principle, they consist of three layers. The upper, transparent layer, which faces the viewer, has the printing on the bottom side according to customer's design. This results in a high protection. The keys themselves can be embossed to achieve a good tactile feeling. The bottom side of the keys will be conductive. The middle

layer allows distance between the upper and lower layer. Open areas of the middle layer allow a switching process by pressing the key. The tracks on the surface of the lower layer lead to the connector. On request we can supply the finished keyboard ready for assembly. For easy mounting the rear-side is usually self-adhesive.

CONSTRUCTION



GENERAL FEATURES

- high reliability at a long lifetime
- flexible design (size, colors, printing, embossing)
- flat and flexible
- compact construction with integrated functions (e.g. LEDs)
- easy to connect
- applicable wherever data have to be entered manually

ELECTRICAL AND PHYSICAL PARAMETERS *

	Parameter	Data
Electrical data	contact resistance	100 Ohm or less
	insulation resistance	100 MOhm or more at 100 V DC
	operating voltage	< 24 V
	max. current	10 mA
	min. current	50 µA
	max. power	1 W
	bouncing	15 ms or less
Mechanical data	operating force	1 - 5 N
	stroke	ca. 0,2 - 0,7 mm
	lifetime	> 1.000.000 operations
	protection level	IP65
	operating temperature	-20°C to +70°C / 50-80% RH
	storage temperature	-40°C to +80°C / 10-85% RH

* depending on construction

...Welcome!

As a display and customized keypad specialized partner of the European manufacturing industry, we have our strength in custom-designed LCD-solutions. Customized products can be produced also in low volumes at economical prices. We offer a full custom design service, from a simple segment display panel to a complete graphic display solution including interface, backlight and additional components like buttons.

The extensive exchange of information with our customers leads to an optimum result, if we can take part in the development at an early stage. For some customers we keep interim stock, so that we can deliver parts immediately, in case unforeseen urgent requirements occur.



...since 1984



In Frankfurt we evaluate and validate our products in our own well equipped laboratory. The validation may include electrical, optical, temperature and humidity tests.



In accordance to our philosophy and as a result of the ISO9001 certification we do additional income inspections to ensure reliable deliveries to our customers.



In Frankfurt we have our purpose built logistic center providing the lowest cost channel for our products to flow into the European Market. We also hold a large stock quantity for immediate shipments.



Welcome to visit our showroom. We invite you to see most of our products in our showroom. This helps to discuss all the possible solutions for your projects.



We participate in international exhibitions to bring our products to the market and to allow our visitors to learn more about our products.

Display Elektronik GmbH has most standard products available from stock at attractive prices. Our standard LCD-product range includes LCD-Panels, Digital-Modules, Alphanumeric-Modules and Graphic-Modules. To complete our LCD-product range we offer CSTN (Colour STN), TFT-displays, OLED-displays and E-Paper Displays as well. In addition we also offer LED-displays, and several accessories like LED-Backlights, Touch-Panels and customized Membrane Switches and customized Rubber Keypads as well.

Please contact us – we will make sure that the first step will lead to a successful long lasting reliable partnership.

... Join our partnership !

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