

# Flush Mounting and Abrasive Media

Flush mounting and abrasive media products from TT Electronics offer unrivaled abrasion resistance. They are both robust and high quality, and are available with a choice of either a cable or integrated connector configuration. Both types incorporate a four active arm strain gauge bridge fused to a high purity ceramic diaphragm. This offers high natural output coupled with superb chemical and corrosion resistance. The units have been designed primarily for use with slurry and other abrasive fluids. They feature a cavity free, flush sensing diaphragm covered by a flexible polypropylene shield.

## Abrasive Material Pressure Transmitter P6420-57 (Cable) or P6420-67 (Niphan plug and socket)

Pressure Range	5, 10, 20, & 50 bar SG and G
Excitation	10-32 Vdc unregulated
Output	Span: 16 mA $\pm$ 1 % of span at pressure
	Zero: 4 mA $\pm$ 1 % of span at zero pressure
Output Type	4-20 mA
Non Linearity, Hysteresis & Repeatability (NLH)	$<\pm$ 1 % of span (best fit straight line)
Operating Temp Range	-25°C to +100°C
Safe Over-range	1.5 times rated range
Burst Pressure	3 times rated range minimum
Insulation Resistance	>500M $\Omega$ at 500 Vdc, over the full operating temperature range
Loading Driving	1k $\Omega$ @ 28 Vdc supply
Environmental Protection	IP68 (P6420-57-Cable) or IP66 (P6420-67 - Niphan plug and socket)
Electrical Connections	IP68 Cable PUR or Niphan plug and socket
Cable Length (m)	3



Model Number (Cable)	PP6420-010-57	PP6420-016-57	PP6420-020-57	PP6420-035-57
Pressure Range (bar)	0-10	0-16	0-20	0-35

Model Number (Plug & Socket)	PP6420-010-67	PP6420-016-67	PP6420-020-67	PP6420-035-67
Pressure Range (bar)	0-10	0-16	0-20	0-35

Model Number (Cable)	PP6420-050-57	PP6420-070-57	PP6420-100-57	PP6420-200-57
Pressure Range (bar)	0-50	0-70	0-100	0-200

Model Number (Plug & Socket)	PP6420-050-67	PP6420-070-67	PP6420-100-67	PP6420-200-67
Pressure Range (bar)	0-50	0-70	0-100	0-200



# Submersible Transducers and Transmitters

The submersible transducer and transmitter portfolio of TT Electronics is comprised of two families: the Trident Series Submersible Level-Depth Transmitter; and the Trident Series Corrosion Resistant Submersible Level/Depth Transmitter. Each has been designed for exceptional accuracy and reliability.

Trident Series Level/Depth Transmitters are a family of temperature compensated pressure transmitters. Their all-welded construction makes them ideal for even the most onerous of applications, including pump testing, reservoir, borehole, river and tank liquid level measurements.

Trident Series Corrosion Resistant Submersible Level/Depth Transmitters have been specifically designed for harsh environment liquid level monitoring requirements, including those of land fill and effluent sites. Their materials of construction ensure protection from even the most aggressive leachates in these applications.

Lightning and surge protection are also standard features of both product families, making them suitable for outdoor installations. They are also fully compensated over wide operational and compensated temperature ranges.

## Trident Series Corrosion Resistant Submersible Level/Depth Transmitters REF: DS2801 & DS2802

Pressure Ranges	Available from 1 mWG to 500 mWG vented; Absolute available from 2.5 mWG
Power Supply	10 to 32 Vdc
Output Options	4-20 mA (two-wire)
Zero and Span Setting	±1 % of span
Non Linearity, Hysteresis & Repeatability (NLH)	<±0.25 % of span
Compensated Temp	0°C to 60°C
Operating Temp	-10°C to 60°C
Thermal Effects	Zero: <±0.015 % span/°C Span: <±0.015 % reading/°C typical
Safe Over-range	1.5 x rated range minimum
Burst Pressure	3 x rated range minimum
Long Term Stability	0.1 % span/12 months
EMC Protection	Meets EN2004/108/EC
Electrical Connection	PUR vented cable
Wetted Materials	DS2801: C316L stainless steel, alumina ceramic, polyurethane, acetal and Viton O-ring DS2802 (Enhanced Corrosion Resistance): DUPLEX stainless steel, alumina ceramic, polyurethane, acetal and chemraz O-ring



## Trident Series Corrosion Resistant Submersible Level/Depth Transmitters

Model Number	PB-AIVAC-0001-A-G	PB-AIVAC-0001-B-G	PB-AIVAC-0001-C-G	PB-AIVAC-0001-D-G	PB-AIVAC-0001-E-G
Pressure Range (mbar)	0-100	0-100	0-100	0-100	0-100
Cable Length (m)	1	2	4	6	10

Model Number	PB-AIVAC-0004-A-G	PB-AIVAC-0004-B-G	PB-AIVAC-0004-C-G	PB-AIVAC-0004-D-G	PB-AIVAC-0004-E-G
Pressure Range (mbar)	0-400	0-400	0-400	0-400	0-400
Cable Length (m)	1	2	4	6	10

Model Number	PB-AIVAC-001-A-G	PB-AIVAC-001-B-G	PB-AIVAC-001-C-G	PB-AIVAC-001-D-G	PB-AIVAC-001-E-G
Pressure Range (bar)	0-1	0-1	0-1	0-1	0-1
Cable Length (m)	1	2	4	6	10

Model Number	PB-AIVAC-002-A-G	PB-AIVAC-002-B-G	PB-AIVAC-002-C-G	PB-AIVAC-002-D-G	PB-AIVAC-002-E-G
Pressure Range (bar)	0-2	0-2	0-2	0-2	0-2
Cable Length (m)	1	2	4	6	10

Model Number	PB-AIVAC-003-A-G	PB-AIVAC-003-B-G	PB-AIVAC-003-C-G	PB-AIVAC-003-D-G	PB-AIVAC-003-E-G
Pressure Range (bar)	0-3	0-3	0-3	0-3	0-3
Cable Length (m)	1	2	4	6	10

Model Number	PB-AIVAC-005-A-G	PB-AIVAC-005-B-G	PB-AIVAC-005-C-G	PB-AIVAC-005-D-G	PB-AIVAC-005-E-G
Pressure Range (bar)	0-5	0-5	0-5	0-5	0-5
Cable Length (m)	1	2	4	6	10

Model Number	PB-AIVAC-010-A-G	PB-AIVAC-010-B-G	PB-AIVAC-010-C-G	PB-AIVAC-010-D-G	PB-AIVAC-010-E-G
Pressure Range (bar)	0-10	0-10	0-10	0-10	0-10
Cable Length (m)	1	2	4	6	10

