CT801-SI

Electro-pneumatic Tank Level Transmitter - Deck Installation

The CT801-SI electro-pneumatic tank level transmitter performs level measurements of tanks on ships, barges and yatchts based on the bubbler-type principle. Compressed air is sent via a simple pipe to the bottom of the tank; the pressure equivalent to the column of liquid is measured by a very sensitive differential pressure sensor and transmitted as output signal. A simple pipe being the only wetted part rules out any chances of instrument corrosion. Measurement accuracy is totally immune to bad conditions like sloshing, angled surface, foam, solid deposits, unlike many other gauging technologies. Ease of installation and simple on-board maintenance with pre-stocked spare parts has made CT801 series the instrument of choice since 1966, whenever electro-pneumatic tank level measurement is required. The pneumatic level indicator CT080 can be connected to CT801 series without additional power supply.

Honeywell offers a wide variety of choices for electro-pneumatic level measurement with a portfolio spanning independent stand alone level transmitters, and bubbling cabinets for measurement and signal accumulation from a common cabinet. The CT801-SI is designed for tank top mounting on open deck using a bracket or flanged connection. These transmitters are designed to avoid common malfunctions such as lack of air pressure supply or overpressure. An automatic non-return valve is activated as soon as the supply pressure falls below 1 bar in order to prevent the liquid from going into the bubbling line and reaching the transmitter. For pressurized tanks, the level is calculated by deducting the inert gas pressure above the liquid from the measured hydrostatic pressure.



TECHNICAL SPECIFICATIONS	
Operating Temperature	- 35°C to + 70°C
	4 to 10 Bar Quality 3
Air Supply Quality	Particle size 5 microns Pressure Dew point: -20°C Oil content: 1mg/m3
Range	0 mBar to 4000 mBar
Power Supply	12 to 28V DC
Accuracy	+/-0.3% FS @20°C
Output Signal	4-20mA
Protection Class	IP66/67

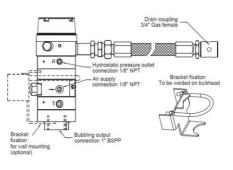
PNEUMATIC FEATURES & CONNECTIONS	
Safety Features	Automatic operation of: Overpressure valve Air supply safety valve Bubbling line non-return valve Bubbling line cleaning Venting nipple for open deck
	mounting
Connections	Pressurized tanks Pressure level indicator
Bubbling flow	• 10l/h (automatic regulator)
Bubbling line connections	1" BSPP 1/2" NPT (With Flange) 1/4" NPT

DOCUMENTATION	
Technical manual	MT5006
Installation manual	MI5006
Maintenance manual	MM5006

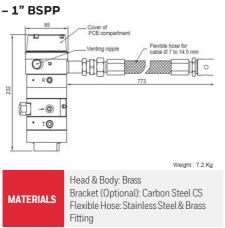
APPROVALS	
Intrinsic Safety Approval	IECEx, ATEX. II 1 G D Ex ia IIC T6 Ga Ex ia IIIC T70°C Da



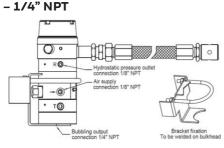
MECHANICAL CONNECTIONS – 1" BSPP



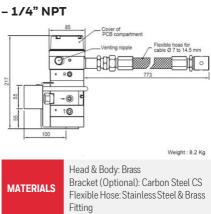
MECHANICAL DIMENSIONS



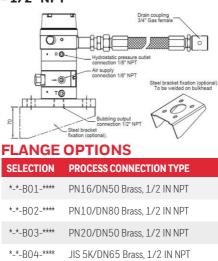
MECHANICAL CONNECTIONS



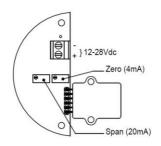
MECHANICAL DIMENSIONS



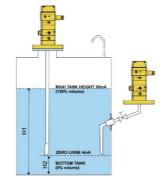
MECHANICAL CONNECTION – 1/2" NPT



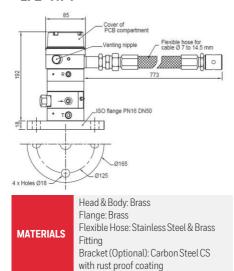
ELECTRICAL CONNECTION



EXAMPLE OF INSTALLATION



MECHANICAL DIMENSION - 1/2" NPT



AVAILABLE PRESSURE RANGES

SELECTION	PRESSURE RANGE – ELECTRONIC PCB
1	0-40/70mbar
2	0-70/350mbar
3	0-350/1050mbar
4	0-1050/2100mbar
5	0-2100/4100mbar

For More Information

www.process.honeywell.com

Honeywell Marine

26 28 Avenue de Winchester 78100 Saint Germain EN Laye, France This document is not intended to be used for installation purposes. We try to keep our product information upto-date and accurate. We cannot cover all specific applications or anticipate all requirements.

All specifications are subject to change without notice.

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