BTH™
Pressure Transmitter

PT3000

■ Applications

Pumps	Water, hydraulic fluids
Compressors	Compressed air
Process	Food, beverage, oil, steam
HVAC	Refrigerants (butane, propane, ammonia, R134A, R407C, R410A, R448A/Solstice® N40, R32 and R1234ze, R1234yf, glycol + water)
Medical	O_2, N_2, CO_2, N_2O, air

■ Technical Specifications

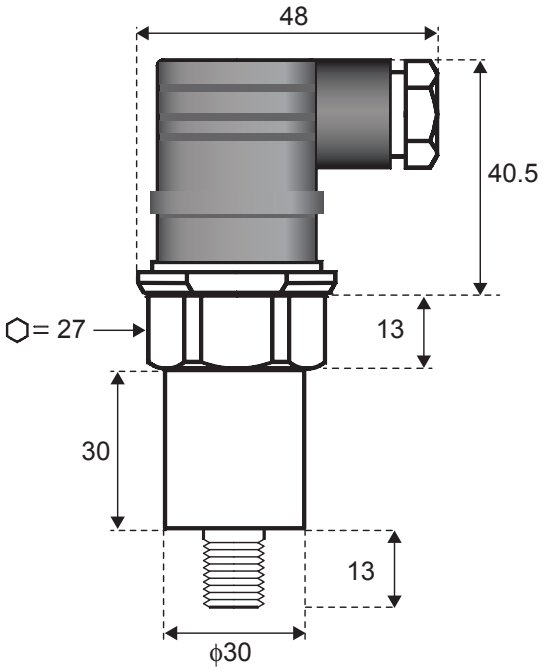
Technical Specifications		**PT 3000-06-1**	**PT 3000-10-1**	**PT 3000-16-1**	**PT 3000-25-1**	**PT 3000-40-1**	**PT 3000-60-1**	**PT 3000-100-1**
Pressure Ranges from 0 to …	bar (gauge)	6	10	16	25	40	60	100
Proof Pressure		20	20	32	50	80	120	200
Burst Pressure		30	30	48	75	120	180	300
Electrical								
Output Signal		4~20mA						
Operating Supply Voltage		12~30VDC						
Power Consumption		≤600mW						
Load		>4.7kΩ						
Overvoltage Protection		Max 33V						
PIN Assignment		**Current Output**						
Connector		**PIN 1**		**PIN 2**		**PIN 3**		**PIN 4**
DIN 18 mm		Vsup		Iout		—		⏚
Response Time		≤ 2 ms max. to 63% of full scale pressure with step change on input						
Accuracy *		≤ 0.5% of span 0.1% of span						
Non-linearity *		0.1% of span						
Non-repeatability		0.1% of span						
1-year Stability		0.2% of span						
* Including non-linearity, hysteresis, non-repeatability, zero point and full scale error. Adjusted in vertical mounting position with pressure port down.								
Medium Temperature		-30°C to +80°C						
Environmental Temperature		-30°C to +100°C (depending on electrical connector and external seal ring)						
Weight		260g						
Media		All class II fluids and gases compatible with stainless stell 304 (1.4301)						
Electrical Connector		18mm Compatiable With DIN 175301-803A						

The specifications are subject to change without prior notice

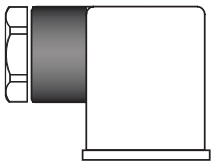
All dimension are in **mm**

PT 3000-06-1 Version 1.0 PT 3000-16-1 Version 1.0 PT 3000-40-1 Version 1.0
PT 3000-10-1 Version 1.0 PT 3000-25-1 Version 1.0 PT 3000-60-1 Version 1.0
PT 3000-100-1 Version 1.0

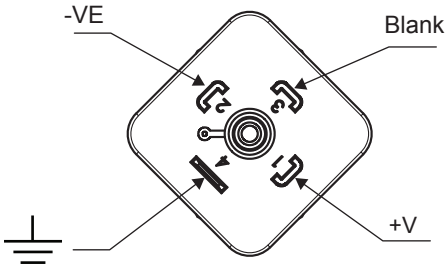
Dimension Drawing



Weight approx. 0.260 kg

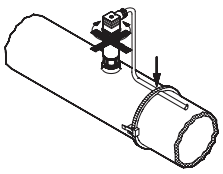


1: +
2: - / common



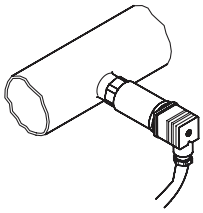
Mounting

Cable Version



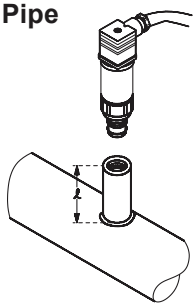
The pressure transmitter must be mounted before cable is fastened.

Orientation

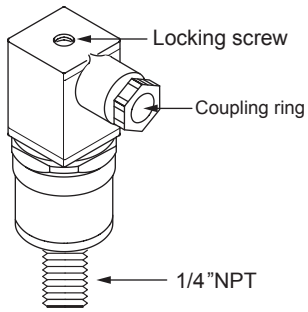


Can be mounted horizontal or vertical with pressure connection facing downwards. Plug cable facing downwards prevents water collection in cable entry.

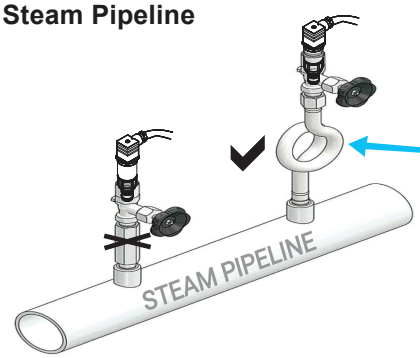
Hot Gas Pipe



Use a distance sleeve to reduce temperature influence.



Steam Pipeline



Syphon

Gauge Syphons are used to protect the pressure gauge from the effect of hot pressure media such as steam and also to reduce the effect of rapid pressure surges. The syphon allows condensate to form and be collected inside the syphon, preventing the hot media (hot vapors, not just steam) from coming in direct contact with the pressure instrument.

Types of gauge siphon - Coil Syphons - U Type Syphons
Compact Gauge Syphons - Straight Pipes and 90° Elbows.

BTH can accept no responsibility for possible errors in catalogues, brochures and other printed material. BTH reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. Ensure that filters are used upstream of the transmitter to keep media flow free of particulates. PT3000 Series transmitter are dead-end devices. Particulate accumulation may clog the port or damage the diaphragm. Ensure that the media does not create a residue when dried. Build-up of residue inside the transmitter may affect transmitter output. Ensure that the transmitter housing is properly grounded.