



传感器 | 控制仪表 | 推拉力计 | 扭力计
www.sensortop.cn

PCM 压力传感器 P-TP1-10 Bar



产品型号:

P-TP1-10 Bar

TP1 压力传感器

模型: p-tp1

主要特点:

容量 10 巴 - 700 巴。

线性度 0.2% / 0.5%。

IP67 等级。

应用:

试验机

过程控制

恶劣的环境

数据表: p-tp1 压力传感器

的 p-tp1 压力传感器可以提供两个版本:



传感器 | 控制仪表 | 推拉力计 | 扭力计

www.sensortop.cn

TP1 应变 2mV/ μ V 输出。

tp1-a 放大输出 0-5V 使连接到 PLC 或更高级的采集系统更容易。

传感元件是由 17-4PH 不锈钢制作。每个传感器完全激光焊接，完全树脂封装。

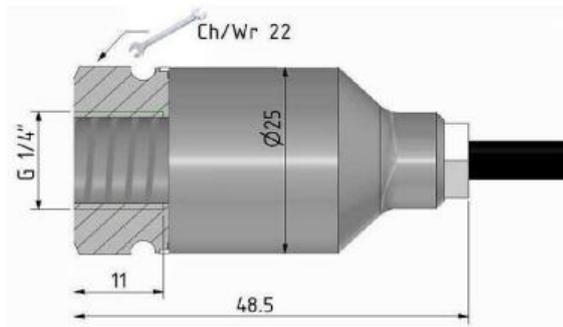
如需更详细的产品规格和完整的配件清单，请下载产品数据表。如果尺寸或规格不适合，我们有一个内部设计和构建服务，应该能够满足您的要求。

TYPICAL SPECIFICATION

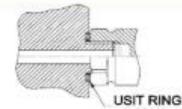
PARAMETER	VALUE	UNITS
Pressure Range	10-20 (<i>Relative</i>) 50-100-250-350-500-700 (<i>Absolute</i>)	Bar
Rated Output	2.0 \pm 0.5%	mV/V
Linearity & Hysteresis	\pm 0.5 (<i>Relative</i>) \pm 0.20 (<i>Absolute</i>)	\pm % of Full Scale
Zero Balance	0.5	\pm % of Full Scale
Temperature Range: Operating	-10 to +110	$^{\circ}$ C
Temperature Range: Compensated	-20 to +110	$^{\circ}$ C
Temperature Effect: On Output	0.015	\pm % of Rated Output/ $^{\circ}$ C
Temperature Effect: On Zero	0.020	\pm % of Rated Load/ $^{\circ}$ C
Safe Overload	150	% of Rated Capacity
Ultimate Overload	>300	% of Rated Capacity
Excitation: Maximum	18	Volts AC or DC
Input Impedance	440 \pm 20	Ω
Output Impedance	350 \pm 2	Ω
Insulation Resistance	>2	G Ω at 50VDC
Response Frequency	20 to 100	kHz
Standard Process Coupling	1/4" BSP Female	-
Recommended Gasket	USIT 1 63-11	-
Tightening Wrench	22	mm
Tightening Torque	28	Nm
Sensor Execution Material	INOX 17-4 PH Stainless Steel	-
Environmental Protection	IP67	-
Cable	3m (PVC 4 core screened, 105 $^{\circ}$ C shielded)	-

AUGUST 2013

www.pcm-uk.com



TYPICAL INSTALLATION

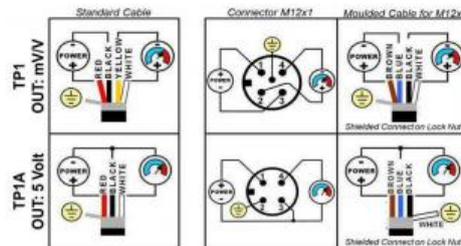


ACCESSORIES (Optional)

PARAMETER	VALUE	UNITS
Nominal Sensitivity	0.5 - 5.5 $\leq \pm 0.5\%$	Vdc
Nominal Power Supply	12-24	Volts AC or DC
Maximum Power Supply	28	Volts AC or DC
Maximum Absorption	20	mA
Loading Resistance	min. 3	K Ω
Insulation Resistance	>2	G Ω
Zero Balance	$\leq \pm 0.5\%$	$\pm\%$ of Full Scale
Response Frequency	1-5	kHz
Cable	2m (PVC 4 Core Screened - Shielded) M12x1 Connector	

NOTE: If the dimensions or specification do not suit, PCM have an in-house design and build service that should satisfy your requirements.

WIRING DETAIL



AUGUST 2013

Modifications reserved. All details describe our products in general form only. PCM assumes no liability whatsoever, and disclaims any express or implied warranty relating to sales and/or use of PCM products including liability or warranties relating to fitness for a particular purpose.

www.pcm-uk.com
 Email: sales@pcm-uk.com
 Tel: +44 (0) 1926 864444
 Fax: +44 (0) 1926 864888