

TPG-2012 Intelligent Digital Display Pressure Transmitter

Features

Precise digital temperature compensation, wider compensation range;

- Optional data display (max. and min. measure value, percentage and output current display) ;

- Special wider temperature LCD indicator (-30°C~80°C) ;

- 2-wire 4~20mA DC current loop output;

- RS485 communication protocol;

- No power calibration, range shrinking, factory value restoring available;

- Compact size, max.diameter only 76mm;

- Vertical or horizontal installation, indicator rounded clockwise or unclockwise 90°,all kinds of interfaces available;

- Battery power supply available;



Introduction

TPG-2012 Intelligent digital display transmitter is the highly accurate and stable intelligent transmitter, which generally used for actual pressure measure and display. The product uses wider temperature display LCD indicator, high stable pressure sensor, precise digital temperature compensation and non-linearity correction technics, the whole product is precise and reliable. With compact size and excellent performance, the product can be used for precise pressure measure and display for power station, chemi-industry, city water supply and drainage, etc.

Specifications

Basic range (MPa)	0.1	0.2	0.35	0.7	1.0	2.0	3.5	7.0	10	20	35	60	100
Overpressure (MPa)	0.15	0.3	0.5	1.0	1.5	3.0	5.0	10	15	30	50	90	110

Note: the min.available shrinking pressure range is 1/5 of basic pressure range;

Vacuum pressure measure is available;

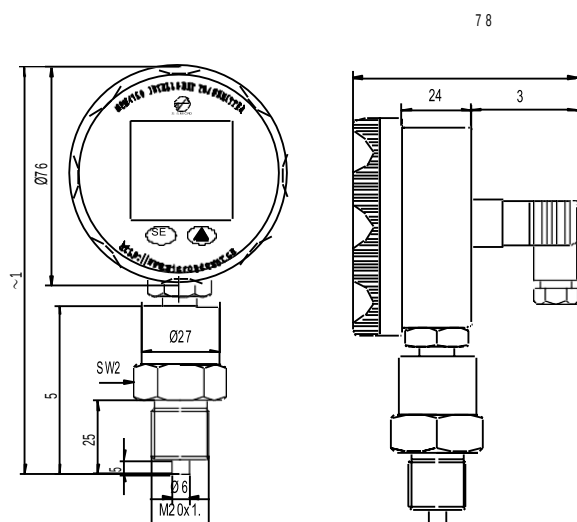
For the other pressure range between min.range and max.range, but not included in the above table, we enlarge the above basic pressure to produce (overpressure unavailable)

Total accuracy④	±0.1%FS (min.)	±0.25%FS (typ.)	±0.5%FS (max.)
Basic error ⑩②	±0.075%FS (min.)	±0.15%FS (typ.)	±0.25%FS (max.)
Stability	±0.25%FS/year		① Total accuracy: including

Compensation temp.③	(-10~80)℃	1 non-linearity,hysteresis, repeatability and thermal error; ② Room temperature rated value (20±2) ℃ ; ③ including non-linearity, hysteresis and repeatability; ④ For special temperature requirement, please feel free to contact our company.
Operation/storage temp.	(-30~80)℃	
Power supply	(8~28)VDC	
Output signal	(4~20)mADC	
	RS485 interface	
Load	(4~20)mADC output, (U-8V) /0.02A (Ω)	
	RS485, can connect 99 transmitters	
Electric connection	GDM307 4-pin plug	
Insulation	100MΩ/50V	
Shock	20g, (20~5000)Hz	
Impact	20g, 11ms	
Protection	IP65	
Media compatibility	Diaphragm: stainless steel 316L	
	Pressure interface: stainless steel	
	Housing: stainless steel 1Cr18Ni9Ti	
	O-ring: Viton	
Weight	About 420g	

Outline Construction

(unit: mm)



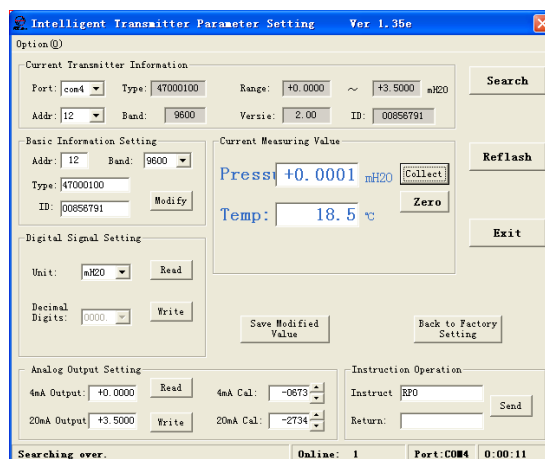
Electric Connection

Output signal	Connection	Plug
4~20mA 2-wire	+V	1
	4~20mADC output	2
Communication interface	RS485A	3
	RS485B	4

Assistant Software

MS Setonline Software

RS232/485 conversion module is used to communicate with RS485 interface, display actual pressure, set new zero, analog output and transmitter address.



Note: “MS Setonline” software could be downloaded from our website www.teksens.com.tr

Order Guide

TPG-2012	Intelligent Digital Displaying Pressure Transmitter			
	Range	Pressure range: -0.1...0~0.01...100MPa		
	[0~X]kPa or MPa	X=actual pressure range		
		Code	Output signal	
		E	4~20mADC	
		R ₄	RS485 communication interface	
			Construction material	
		Code	Diaphragm	Pressure port
		22	SS 316L	SS
		24	SS 316L	SS 316L
			Code	Others
			C ₁	M20×1.5 male, face type seal
			C ₃	G1/2 male, (P type)
			C ₄	G1/4 female
			C ₅	M20×1.5 male, waterline seal
			PC ₁	Flush diaphragm, M20×1.5 male
			PC ₃	Flush diaphragm, G1/2 male
			G	Gauge
			S	Sealed gauge
			A	Absolute
			V _b	Battery-powered
MPM4760	[0~100]kPa	ER ₄	22	C ₁ G
the whole spec				

Order Note

1. If the user needs battery power supply, but no need for 4~20mADC output, please note in the order;
2. flush diaphragm transmitter's pressure range: 0~70kPa...35MPa
3. Battery is the cylindrical 3.6V/2400mAh lithium battery
4. If the user has special requirement, please feel free to contact our company.