

High Temperature Digital Pressure Gauge

Model PY803T

Applications

- Steam Pressure Measurement
- Pressure Measurement at High Temperatures
- Pressure Leak Measurement
- Peak Recording Measurement

Special features

- Measuring ranges : -1 ... 2500 bar
- Accuracy: up to 0.02 % F.S
- Stable performance for high-temperature pressure measurement
- Large 5- or 6-digit digital display
- Resistant to shock, vibration, and corrosion
- Micro-power technology, more than 10,000 hours of continuous operation without hibernation
- Max/min peak recording



PY 803T pressure gauge

Description

PY803T High Temperature Digital Pressure Gauge selects high temperature resistant pressure sensor as the measuring element and includes a heat dissipation structure. The product has undergone rigorous testing and aging, with stable and reliable performance. Suitable for use in industrial sites, food and pharmaceutical equipment, power generation, machinery manufacturing, steam and heat exchange fields.

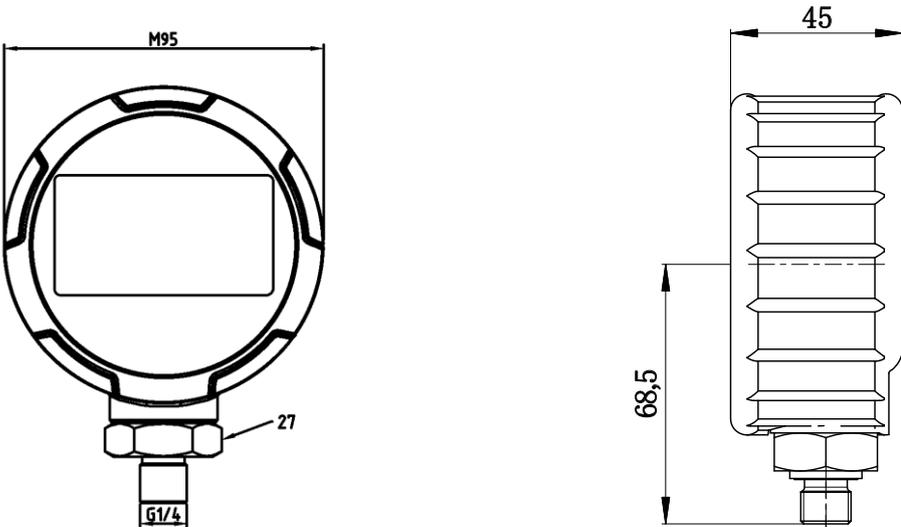
The measurement rate can be selected by the user as required. Standard applications typically use three measurements per second. Battery life of 8,000 hours in conventional mode.

Adopting different heat sink structures, the maximum use temperature can reach 1000 degrees, according to customer demand for different temperature occasions.

Specifications

Basic information	
Pressure types	
Gauge pressure	-1 ... 2500bar
Accuracy	0.02%FS , 0.025 %FS , 0.05 % FS , 0.1 % FS
Temperature compensation	-10...50 °C
Units	
Pressure	bar ,mbar, Pa, kPa, MPa, PSI, kg/cm ² , mmH ₂ O, mmHg, inHg
Display	
Type	Multifunctional LCD, 6 digit, with background lighting
Functions	Bar Graph, Pressure Units, Pressure Measurement, Min/Max, Overpressure Indication 120 % of Full Scale Pressure (F.S)
Process connection	
Thread	1/4NPT, 1/2NPT, G1/2, G1/4,Others can be customized
Material	316L
Power supply	
Battery type	3x 1.5 V AA and 9vdc external adapter power supply,Explosion-proof type built-in one 14500 disposable lithium battery
Battery operation	8,000 h
Interface	RS 232 port
Heat sink	<ul style="list-style-type: none"> ■ 3 pieces, Medium temperature≤150°C ■ 5 pieces, Medium temperature≤250°C ■ 7 pieces, Medium temperature≤350°C
Housing	
Dimensions	Ø 100 mm, D=37 mm H=135 mm with protection cap
protective cover	Gray Silicone Protective Case
packing box	Aluminum alloy box or carton packaging
Ambient conditions	-20...70°C with air humidity ≤95%r.h.
Weight	650 g

Overall dimensions(mm)

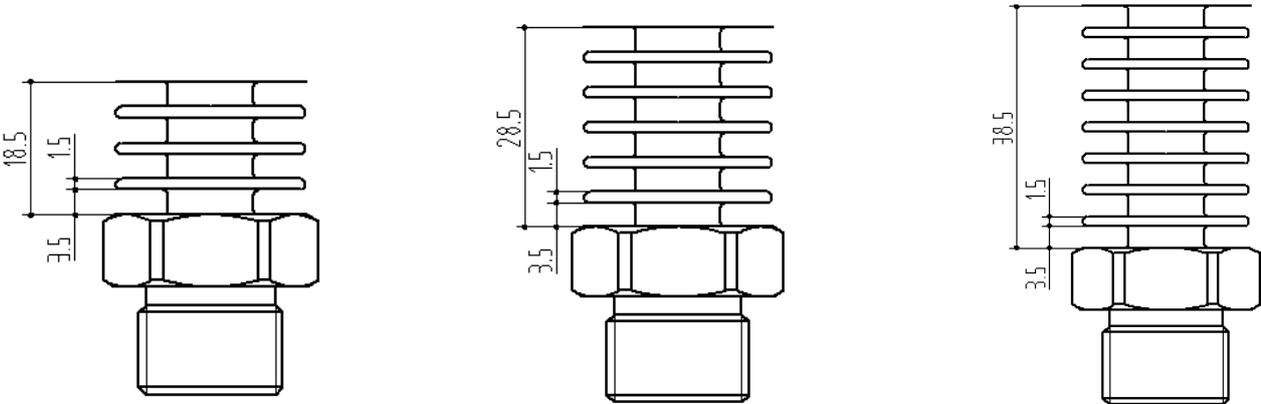


Heat sink (Unit: mm)

3 pieces, Medium temperature ≤150

5 pieces, Medium temperature ≤250

7 pieces, Medium temperature ≤350



Measuring ranges, gauge pressure

Overview pressure ranges				
Type	pressure ranges(bar)	Accuracy (± of full scale value)	media	Burst Pressure
GP0.16	0...0.16	0.05(0.1,0.2)	Gas/Liquid	4X
GP 0.25	0...0.25	0.05(0.1,0.2)	Gas/Liquid	4X
GP 0.4	0...0.4	0.05(0.1,0.2)	Gas/Liquid	3X
GP 0.6	0...0.6	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 1	0...1	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 1.6	0...1.6	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 2.5	0...2.5	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 4	0...4	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 6	0...6	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 10	0...10	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 16	0...16	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 25	0...25	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 40	0...40	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 60	0...60	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 100	0...100	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 160	0...160	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 250	0...250	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 400	0...400	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 600	0...600	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
GP 1000	0...1000	0.05(0.1,0.2)	Gas/Liquid	3X
GP 1600	0...1600	0.05(0.1,0.2)	Gas/Liquid	2X
GP 2000	0...2000	0.05(0.1,0.2)	Gas/Liquid	1.5X
GP 2500	0...2500	0.05(0.1,0.2)	Gas/Liquid	1.5X

Measuring ranges, vacuum and +/- measuring ranges

Overview pressure ranges				
Type	pressure ranges(bar)	Accuracy (± of full scale value)	media	Burst Pressure
VP -0.25	-0.25...0.25	0.05(0.1,0.2)	Gas/Liquid	3X
VP -0.4	-0.4...0.4	0.05(0.1,0.2)	Gas/Liquid	3X
VP -0.6	-0.6...0.6	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 0	-1...0	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP0.6	-1...0.6	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 1	-1...1	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 1.6	-1...1.6	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 2.5	-1...2.5	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 4	-1...4	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 6	-1...6	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 10	-1...10	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 40	-1...40	0.02(0.05,0.1,0.2)	Gas/Liquid	3X
VP 60	-1...60	0.02(0.05,0.1,0.2)	Gas/Liquid	3X

Note:

The compensation temperature for 0.02 %FS is 20 ± 5 °C. The compensation temperature for 0.05 % FS is 0-50 °C. If the pressure is less than 100 mbar, the measuring medium is Gas. For pressures greater than 100 mbar, the measuring medium is Liquid or Gas.

Order code					
model	Accuracy	Pressure	Unit	Process connection	Power supply
PY 803T	A002(0.02%F.S) A005(0.05%F.S) A010(0.1%F.S)	Table of reference measuring ranges	bar psi MPa kg/cm ² kPa mbar mmHg mmHO inHg Pa	1/4NPT 1/2NPT G1/2 M20*1.5 G1/4 Other	N:3*1.5V AA batteries L: one 14500 disposable lithium battery
Example order number		PY803T-A005-GP10(0...10)bar-1/4NPT -N			