

# Digital high pressure gauge

## Model PY803H

### Applications

- Precision pressure measurement
- Pressure test
- Maintenance and service facilities
- Calibration service companies and service industry
- Field gauge calibration

### Special features

- Measuring ranges : 0 ... 10,00 bar, 0 ... 16,00 bar , 0 ... 25,00 bar
- Accuracy: up to 0.05 % F.S(incl. calibration certificate)
- Temperature-compensated in the range of -10...+50°C[14...122°F]
- 9 switchable pressure units
- LCD, 6 digit, with background lighting



**PY 803H high pressure gauge**

### Description

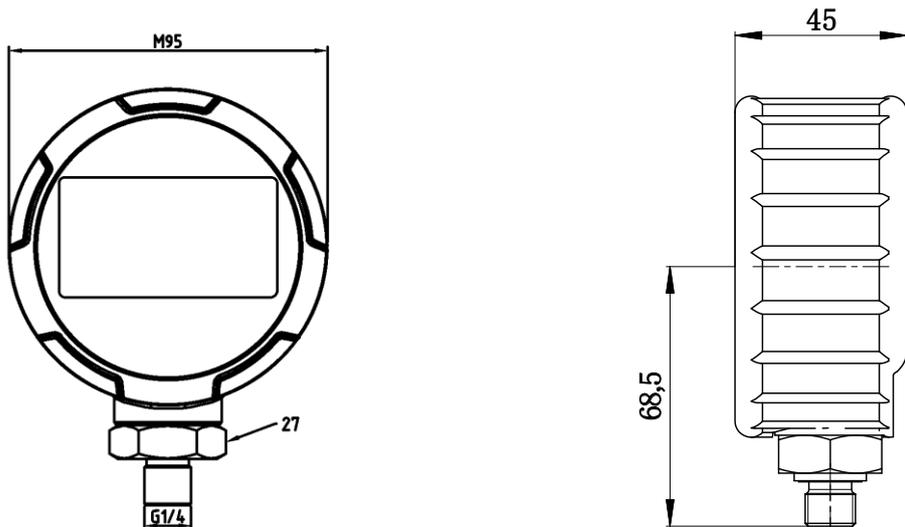
PY803H precision digital pressure gauge is suitable for field and laboratory application. It can be used for precision pressure measurement and field gauge calibration etc. PY803H is an ideal substitution for precision pointer pressure gauge.

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. Clear display bar graph with max pointer function, min/max function for immediate access and automatic saving of min and max pressures.

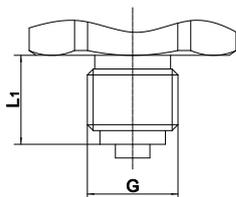
# Specifications

Basic information	
<b>Pressure types</b>	
<b>Gauge pressure</b>	-1 ... 1.000 bar , -1 ... 1,600 bar , -1 ... 2,500 bar
<b>Accuracy</b>	0.05 % FS , 0.1 % FS
<b>Temperature compensation</b>	-10...50 °C
<b>Measuring rate</b>	Max. 10 /s
<b>Units</b>	
<b>Pressure</b>	bar ,mbar, Pa, kPa, MPa, PSI, kg/cm <sup>2</sup> , mmH <sub>2</sub> O, mmHg, inHg
<b>Display</b>	
<b>Type</b>	Multifunctional LCD, 6 digit, with background lighting
<b>Functions</b>	Bar Graph, Pressure Units, Pressure Measurement, Min/Max, Overpressure Indication 120 % of Full Scale Pressure (F.S)
<b>Process connection</b>	
<b>Thread</b>	1/4NPT, 1/2NPT, G1/2, G1/4, Others can be customized
<b>Material</b>	316L
<b>Power supply</b>	
<b>Auto-off function</b>	Selectable switch-off time 5 minutes
<b>Battery type</b>	3x 1.5 V AA and 9vdc external adapter power supply
<b>Battery operation</b>	8,000 h
<b>Interface</b>	RS 232 port
<b>Housing</b>	
<b>Dimensions</b>	Ø 100 mm, D=37 mm H=132 mm with protection cap
<b>protective cover</b>	Gray Silicone Protective Case
<b>Ambient conditions</b>	-20...70°C with air humidity ≤95%r.h.
<b>Weight</b>	450 g

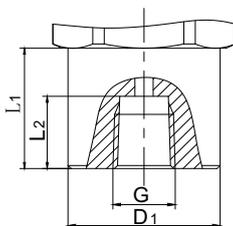
# Overall dimensions(mm)



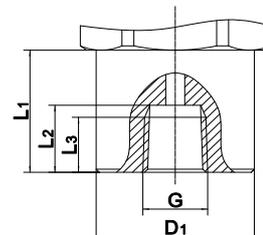
# Process connections



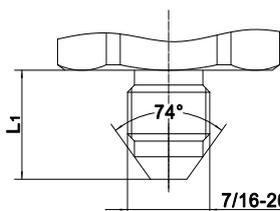
G	L <sub>1</sub>	Standard
G1/4 B	13	EN 837
G3/8 B	16	
G1/2 B	20	
M20×1.5	20	



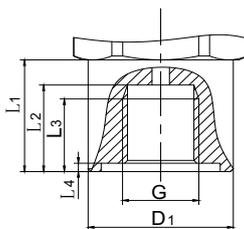
G	D <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	Standard
NPT1/8	Φ25	20	12	ANSI/ASME B1.20.1
NPT1/4	Φ25	20	14	
NPT1/2	Φ25	25	19	



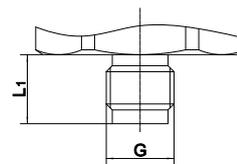
G	D <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	Standard
G1/8	Φ25	20	10	7.5	EN 837
G1/4	Φ25	20	13	10	



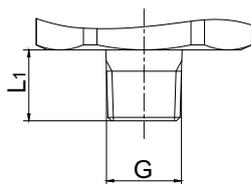
G	L <sub>1</sub>	Standard
7/16-20 UNF-74° cone	14	SAE J514 E



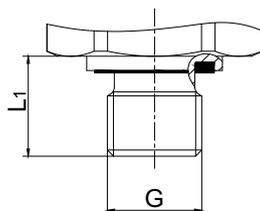
G	D <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	Standard
G1/4	Φ25	20	15.5	13	1.5	ISO 1179-1



G	L <sub>1</sub>	Standard
G1/8 B	10	EN 837



G	L <sub>1</sub>	Standard
NPT1/8	10	ANSI/ASME B1.20.1
NPT1/4	13	
NPT1/2	19	
R1/4	13	ISO 7
R3/8	15	
R1/2	19	



G	L <sub>1</sub>	Standard
G1/4 A	14	ISO 1179-2
G3/8 A	14.5	
G1/2 A	17	
M12×1.5	14	ISO 9974-2
M14×1.5	14	
M20×1.5	16.5	

# Measuring ranges, gauge pressure

Overview pressure ranges(bar)							
Type		A002		A005		A010	
Accuracy (± of full scale value)		0.02%		0.05%		0.1%	
		Resolution	max. Overload	Resolution	max. Overload	Resolution	max. Overload
GP 1000	0...1000			0.1	1500	0.1	1500
GP 1600	0...1600			0.1	2500	0.1	2500
GP 2500	0...2500			0.1	3000	0.1	3000

## Note:

The compensation temperature for 0.02 %FS is  $20 \pm 5$  °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 ranges	Unit	Process connection
PY 803H	A005(0.05%F.S) A010(0.1%F.S)	Table of reference measuring ranges	bar psi MPa kg/cm <sup>2</sup> kPa mbar mmHg mmHO inHg Pa	1/4NPT 1/2NPT G1/2 M20*1.5 G1/4 Other
<b>Example order number</b>		<b>PY803H-A005-GP1600(0...1600)bar-1/4NPT</b>		