

Absolute Pressure Gauge

Model PY803A

Applications

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

Special features

- Measuring ranges : 0 ... 60 bar abs and also vacuum and absolute and differential pressure measuring ranges are available
- Accuracy: up to 0.02 % 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 803A absolute pressure gauge

Description

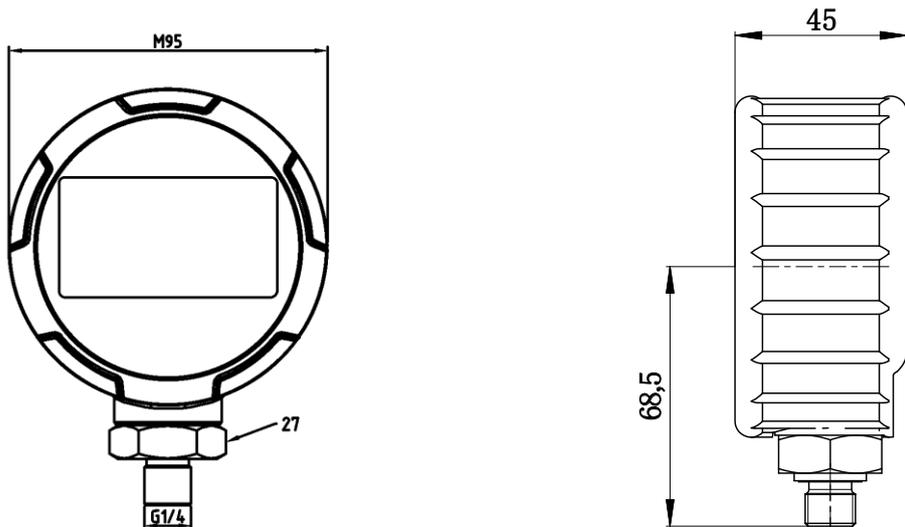
PY803A absolute pressure gauge is suitable for field and laboratory application. It can be used for precision pressure measurement and field gauge calibration etc. PY803A is an ideal substitution for precision pointer pressure gauge.

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.

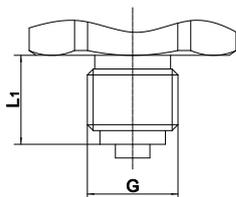
Specifications

Basic information	
Pressure types	
Absolute pressure	0 ... 0.25 bar abs. to 0 ... 60 bar abs.
Accuracy	0.02%FS , 0.025 %FS , 0.05 % FS , 0.1 % FS
Temperature compensation	-10...50 °C
Measuring rate	Max. 10 /s
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	
Auto-off function	Selectable switch-off time 5 minutes
Battery type	3x 1.5 V AA and 9vdc external adapter power supply
Battery operation	8,000 h
Interface	RS 232 port
Housing	
Dimensions	Ø 100 mm, D=37 mm H=132 mm with protection cap
protective cover	Gray Silicone Protective Case
Ambient conditions	-20...70°C with air humidity ≤95%r.h.
Weight	450 g

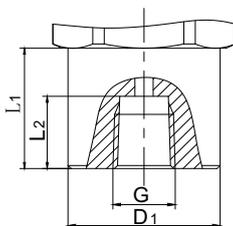
Overall dimensions(mm)



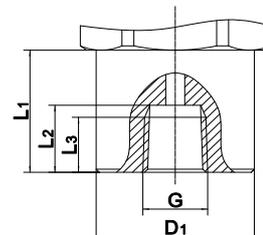
Process connections



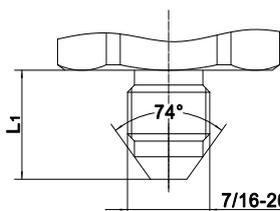
G	L ₁	Standard
G1/4 B	13	EN 837
G3/8 B	16	
G1/2 B	20	
M20×1.5	20	



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

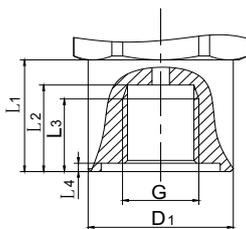


G	D ₁	L ₁	L ₂	L ₃	Standard
G1/8	Φ25	20	10	7.5	EN 837
G1/4	Φ25	20	13	10	

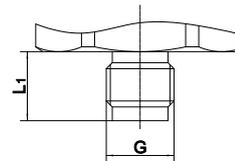


7/16-20 UNF-2A

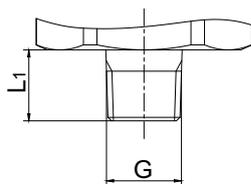
G	L ₁	Standard
7/16-20 UNF-74° cone	14	SAE J514 E



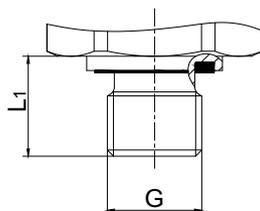
G	D ₁	L ₁	L ₂	L ₃	L ₄	Standard
G1/4	Φ25	20	15.5	13	1.5	ISO 1179-1



G	L ₁	Standard
G1/8 B	10	EN 837



G	L ₁	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 ₁	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, absolute 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
AP 0.25	0...0.25			0.0001	0.7	0.0001	0.7
AP 0.4	0...0.4			0.0001	1.2	0.0001	1.2
AP 0.6	0...0.6			0.0001	1.8	0.0001	1.8
AP 1	0...1	0.00001	2	0.0001	2	0.0001	2
AP 1.6	0...1.6	0.00001	3.2	0.0001	3.2	0.0001	3.2
AP 2.5	0...2.5	0.00001	5	0.0001	5	0.0001	5
AP 4	0...4	0.00001	8	0.0001	8	0.0001	8
AP 6	0...6	0.00001	12	0.0001	12	0.0001	12
AP 10	0...10	0.0001	20	0.001	20	0.001	20
AP 16	0...16	0.0001	30	0.001	30	0.001	30
AP 25	0...25	0.0001	50	0.001	50	0.001	50
AP 40	0...40	0.0001	80	0.001	80	0.001	80
AP 60	0...60	0.0001	120	0.001	120	0.001	120

Order code				
model	Accuracy	Pressure ranges	Unit	Process connection
PY 803A	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
Example order number		PY803A-A005-AP1(0...1)bar-1/4NPT		