

Precision Micro Differential Pressure Gauge

Model PY803W

Applications

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

Special features

- Measuring ranges : -400... 400 mbar
- 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
- Maximum and minimum peak recording



PY 803W Micro Pressure Gauge

Description

PY 803W precision digital Micro differential pressure gauge is suitable for field and laboratory application. It can be used for precision pressure measurement and field gauge calibration etc.

PY803W 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	
Gauge pressure	0 ... 400 mbar
Differential pressure	±5mbar to ±400mbar
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/cm², mmH2O, 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	4mm quick plug to connect 4mm hose
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=135 mm with protection cap
protective cover	Gray Silicone Protective Case
Ambient conditions	-20...70°C with air humidity ≤95%r.h.
Weight	450 g

Measuring ranges, gauge pressure

Overview pressure ranges(mbar)							
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 5	0...5			0.0001	30	0.0001	30
GP 10	0...10			0.0001	30	0.0001	30
GP 20	0...20			0.0001	60	0.0001	60
GP 50	0...50	0.00001	300	0.0001	300	0.0001	300
GP 100	0...100	0.00001	300	0.0001	300	0.0001	300
GP 200	0...200	0.00001	1000	0.0001	1000	0.0001	1000
GP 400	0...400	0.00001	1000	0.0001	1000	0.0001	1000

Measuring ranges,differential pressure

Overview pressure ranges(mbar)							
Type		A002		A005		A010	
Accuracy (± of full scale value)		0.02%		0.05%		0.1%	
		Resolution	max. Overload	Resolution	max. Overload	Resolution	max. Overload
DP 5	-5...5			0.0001	30	0.0001	30
DP 10	-10...10			0.0001	30	0.0001	30
DP 20	-20...20			0.0001	60	0.0001	60
DP 50	-50...50	0.00001	300	0.0001	300	0.0001	300
DP 100	-100...100	0.00001	300	0.0001	300	0.0001	300
DP 200	-200...200	0.00001	1000	0.0001	1000	0.0001	1000
DP 400	-400...400	0.00001	1000	0.0001	1000	0.0001	1000

Order code

Order code				
model	Accuracy	Pressure ranges	Unit	Process connection
PY 803W	A002(0.02%F.S) A005(0.05%F.S) A010(0.1%F.S)	Table of reference measuring ranges	bar psi MPa kg/cm² kPa mbar mmHg mmHO inHg Pa	4mm quick plug Other
Example order number PY803W-A005-DP10(-10...10)mbar-4mm quick plug PY 803W with Ø4 quick plug, 0.05%F.S, -10...10mbar				