

Pressure calibrators

Precision pressure calibrators - series PM

Pneumatic and hydraulic pressure calibrators of series PM distinguish themselves especially by high accuracy of measurement and compact type of construction. Reference pressures of -1 up to 1000 bar can be generated in a fast and simple way. Exact adjustment of the desired pressure is carried out by a precision adjustment valve. The reference pressure is indicated via an analogue precision pressure gauge or a digital LCD.

The instruments under test are connected to the pressure output of the calibrators by a pressure hose and an adapter. For rough use on the spot the calibrators can be supplied in protection class IP68. Power is supplied by batteries or rechargeable accumulators. The automatic measuring range switch of the PM series grants an optimal resolution with any application. Different measurement units can be selected by pressing a function key.

Technical data test pumps				
Type	P 40.2	P 60	P 700.3	P 1000.2
Pressure medium	Air		Distilled water or hydraulic fluid	
Pressure range	Vacuum -0.95 bar Pressure 40 bar	Vacuum -0.95 bar Pressure 60 bar	With distilled water 0...700 bar With hydraulic fluid 0...700 bar	With distilled water 0...1000 bar With hydraulic fluid 0...1000 bar
Pressure connection → References → Test sample	G $\frac{1}{4}$ G $\frac{1}{4}$ with quick-coupling and pressure hose (1 m)		G $\frac{1}{4}$ G $\frac{1}{4}$ with quick-coupling and pressure hose (1 m)	
Adapter set	G $\frac{1}{8}$, G $\frac{1}{4}$, G $\frac{3}{8}$, G $\frac{1}{2}$, NPT $\frac{1}{8}$, NPT $\frac{1}{4}$, NPT $\frac{1}{2}$ M12 x 1.5, M20 x 1.5 and G $\frac{1}{8}$ male, G $\frac{1}{4}$ male			
Set of seals	PA Seals and O-rings			
Dimensions → Pump with pressure hose → Pump with accessories in case	Approx. 240 x 170 x 50 mm Approx. 450 x 370 x 110 mm		Approx. 255 x 225 x 85 mm Approx. 450 x 370 x 125 mm	
Weight → Pump with pressure hose → Pump with accessories in case	Approx. 1.1 kg Approx. 4.2 kg		Approx. 1.8 kg Approx. 4.8 kg	



Digital pressure gauges

Type E2, D2



Type E2 / D2

Accuracy (full scale)		E2 0.5 %		D2 0.1 %	
Pressure range		Resolution			
-1...3 bar	-14...43.5 psi	1 mbar	0.1 psi	1 mbar	0.1 psi
-1...40 bar	-14...580 psi	10 mbar	1 psi	10 mbar	1 psi
-1...60 bar	-14...870 psi	10 mbar	1 psi	10 mbar	1 psi
0...400 bar	0...5800 psi	100 mbar	1 psi	100 mbar	1 psi
0...700 bar	0...10 000 psi	100 mbar	1 psi	100 mbar	1 psi
0...1000 bar	0...14 500 psi	100 mbar	1 psi	100 mbar	1 psi



Functions		
Type	E2 / D2	
Adjustment options		
Linearisation	via adapter	
Tare / Zero	✓	
Selectable units		
Pressure	bar, mbar, kPa, MPa, PSI, kg/cm ² , mH ₂ O, inH ₂ O	
Features		
Measuring inputs	1 x direct	
Display / Representation		
Multi-functional LCD	4 ½ digit	
Bargraph	✓	
Illumination	✓	
Display filter	✓	
Min / max value	✓	
Measuring rate		
Standard	10 ms	
Peak / Fast	10 ms	
Process connection		
Connection options	G1/4	
Material	1.4404	
Medium temperature	-20...80 °C	-4...176 °F
For aggressive media	✓	
Housing		
Degree of protection	IP67 (front) / IP67	
Dimension	Ø 80 mm T=30 mm H=100 mm	
Material	Zinc casting	
Operating temperature	0...50 °C	32...122 °F
Weight	540 g	1.2 lbs.
Power		
Auto-off function	✓	
Battery type	2x 1.5 V AA	
Battery operation	1500 h	
Certificates (optional)		
DAkkS certificate		
SIKA works certificate		

Combinations

	Reference E2 (0.5% FS)	Reference D2 (0.1% FS)
P 40.2	PM 40.2 E2 (40 bar) 0.5 % FS	PM 40.2 D2 (40 bar) 0.1 % FS
P 60	PM 60 E2 (60 bar) 0.5 % FS	PM 60 D2 (60 bar) 0.1 % FS
P 700.3	PM 700.3 E2 (400 bar) 0.5 % FS (700 bar) 0.5 % FS	PM 700.3 D2 (400 bar) 0.1 % FS (700 bar) 0.1 % FS
P 1000.2	PM 1000.2 E2 (1000 bar) 0.5 % FS	PM 1000.2 D2 (1000 bar) 0.1 % FS

All hand-held pressure pumps and reference gauges can be combined for different measuring ranges, resolutions and accuracy classes, as outlined above.

🔧 Please ask separately for EX-proof.

Component Part Type	SIKA-USA Order Code	ISSA-Code	IMPA-Code
Pressure pumps			
P 40.2 (pneumatic)	PMpump40.2	61.241.50	65 16 31
P 60 (pneumatic)	PMpump60	61.241.51	65 16 32
P 700.3 (hydraulic)	PMpump700.3	61.241.52	65 16 33
P 1000 .2 (hydraulic)	PMpump1000.2		65 16 34
References			
E2 (40) Measuring range -1...40 bar	PMgaugeE2-40	61.241.80	65 16 35
E2 (60) Measuring range -1...60 bar	PMgaugeE2-60		
E2 (400) Measuring range 0...400 bar	PMgaugeE2-400	61.241.81	65 16 36
E2 (700) Measuring range 0...700 bar	PMgaugeE2-700		
E2 (1000) Measuring range 0...1000 bar	PMgaugeE2-1000		
D2 (40) Measuring range -1...40 bar	PMgaugeD2-40	61.241.82	65 16 37
D2 (60) Measuring range -1...60 bar	PMgaugeD2-60	61.241.83	65 16 38
D2 (400) Measuring range 0...400 bar	PMgaugeD2-400	61.241.84	65 16 39
D2 (700) Measuring range 0...700 bar	PMgaugeD2-700	61.241.85	65 16 40
D2 (1000) Measuring range 0...1000 bar	PMgaugeD2-1000	61.241.86	65 16 41