



Time Electronics

7096 Digital Pressure Gauge



- 0 to 700bar (10,000psi)
- Accuracy 0.2% of full scale
- Easy to read display with 5 digit resolution
- Analogue dial for % pressure indication
- Unique self-protection capability technology
- 3 times per second measure speed
- Suitable for field calibration applications
- Ideal for use with the 7095 and 7195 pumps

DESCRIPTION

The 7096 is a high-performance digital gauge for pressure measurement to 700bar (10,000psi). The robust design means that it can be used in critical environments where it is necessary to measure with accuracy, reproducibility, long-term stability and protection against dust. Accuracy is 0.2% of full scale, and features include easy to use controls and an RS-232 port situated on the rear of the unit. The 7096 can be used in various applications including field gauge calibration, safety valve testing, and pressure regulator checking. It can accompany the 7095 handheld hydraulic pump, making a compact field pressure calibration kit, or be used with the 7195 hydraulic benchtop pump in the lab for reference calibration. It covers the pressure range of both pumps.

SPECIFICATIONS

Range	0 to 700bar (10,000psi)
Accuracy	0.2% of fs (including non-linearity, hysteresis, repeatability & temperature effects for 20°C ± 3°C)
Pressure Units	kPa, Kg/cm ² , inHg, PSI, bar, MPa
Over pressure warning	120%
Measure speed	0.2 - 10 Readings per second, user settable
Display	LCD with backlight, pressure values displayed up to 5 digits with 15mm character height and analogue dial graph 25mm wide
Resolution	5 digits
Analogue dial graphic	Includes pressure swing, % indication, low/high alarm
Peak detection	Maximum and minimum peak values can be displayed.
Ambient temperature measurement	Measurement of ambient temperature, range -10°C to 50°C, resolution 0.1°C.
RS-232 Interface	DB9. EasyCal software compatible (available from Time Electronics)
Pressure Port	1/4" G BSP male thread
Environment	Operating temperature: -10°C to 50°C (14°F to 122°F) Compensation temperature: -10°C to 50°C (14°F to 122°F) Storage Temperature: -20°C to 70°C (-4°F to 158°F) Relative humidity: < 95%
Power	Battery: one 9V alkaline battery (included). Battery life: 300 hours (10 readings/sec), 6000 hours (1 reading/10sec), Power auto-off: 60 minutes power auto-off, can be disabled by user, 9V 5.5 x 2.1mm External power socket
Materials	Case material: Aluminium alloy. Wetted parts: 316SS.
Dimensions/Weight	Display head only: 112mm x 40mm, Total height: 178mm. Weight: 580g.

ORDERING INFORMATION

7096	Digital Pressure Gauge (0 to 700bar, 0.2% Accuracy)
C202	Factory Calibration Certificate (NPL traceable)
C203	UKAS Calibration Certificate (ISO 17025)

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.