



# 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 <sup>2</sup> , 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

<b>7096</b> .....	<b>Digital Pressure Gauge (0 to 700bar, 0.2% Accuracy)</b>
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.