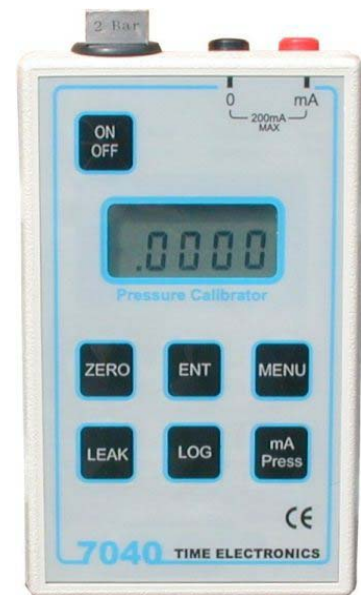




7040 Digital Pressure Calibrator

- 0.2, 2, 5, 10, 20 bar options
- Pressure/Vacuum calibration 0.04% accuracy
- Loop current calibration
- 9 engineering units - bar, psi, KPa, inWg, cmWg, inHg, mmHg, Kg/cm², Atm
- Min / Max function
- Leak rate function
- 4.5 digit display
- 9V internal battery
- RS 232 serial interface



A portable pressure calibrator suitable for workshop, laboratory and field use.

Pressure can be displayed in any of nine popular engineering units. Loop current can also be displayed in mA, or as a percentage of span (4-20mA).

A min/max logging function (pressure or loop current) is provided. The min or max values can be recalled to the display and if required can be viewed in real time.

An additional feature is leak rate display. This allows the actual leakage rate to be observed in real time in the selected 'pressure units' per sec, or per min.

Using a PC or laptop computer and a suitable program the 7040's displayed parameters can be read back – Pressure, Loop Current, Max Value, Min Value. By arranging for the program to store these values in a database a full data logging function is available. Alternatively, by using a calibration software package such as Time Electronics' EasyCal, pre-written calibration procedures can be executed and the results recorded automatically. Calibration certificates can then be printed on site or back at the lab as required.



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SPECIFICATION

Pressure Calibration

Pressure Range: 0.2, 2, 5, 10, or 20 bar (specified on ordering)
Vacuum: Available on 2 bar and above. Measures vacuum to - 1 bar
Accuracy: 0.04% of range +/- 1 digit (0.2 bar version, 0.1% of range +/- 1 digit)
Resolution: 4.5 digit (0.2 bar version, 3.5 digit)
Filter: Off (4 readings/sec), average of 4 readings, or average of 16 readings
Temp. Stability: Less than 0.005% per degC
Sensor: Piezoresistive
Pressure connection: 1/8" BSP female in a stainless steel manifold
Over-pressure: 3 x full scale or, 35 bar
Wetted parts: Stainless steel & silicon (contaminated media version - stainless steel only)
Units: Bar, PSI, KPa, inWg, cmWg, inHg, mmHg, Kg/cm2, Atm

Loop Current Calibration

Ranges: +/- 200mA, and '% of 4-20mA'
Accuracy: 0.05% of reading +/- 2 digit, (0.1% for '% of 4-20mA' range)
Resolution: 10 uA (200mA range), 0.1% (% of 4-20mA range)
Loop resistance: Less than 2 ohms
Protection: 250 mA automatic reset Poly-Fuse
Sockets: 4mm industry standard

Main Functions

Pressure display in one of 9 user selectable units
Loop current display in mA or % of 4 - 20mA
Leak rate display in pressure units per sec, or per minute, as selected in user set-up
Max/Min logging display

RS232 Interface

The 7040's parameters can be read-back over a RS232 serial link - cable provided. User friendly commands from the PC allow data to be logged directly to the PC's hard disk. Alternatively a calibration software package such as Time Electronics' EasyCal can run pre-written calibration procedures and gather the results automatically. Calibration certificates can be printed on site or back in the lab as required.

General

Power: PP3 battery, life 50 hr continuous use
Front panel: Polycarbonate membrane keypad
Case: Impact resistant ABS
Operating temp: 0 to 50 degC.
Storage temp: -10 to 60 degC
Accessories: Carry case, Pneumatic fittings kit and hose, Test lead, Serial link cable
Size: 157 x 90 x 33 mm (6 x 3.5 x 1.2 inch) Weight: 0.29kg (10oz)

Ordering Information

Digital Pressure Calibrator 7040/71xx/CorA

The pressure range is specified as follows,

7100 = 200 mbar

7101 = 2 bar

7102 = 5 bar

7103 = 10 bar

7104 = 20 bar

For contaminated media version add /C

For absolute pressure sensor add /A

Optional Extras

Hand pressure pump Vac-35bar	7090
EasyCal calibration software	9747