Time Electronics

7032 Semi-Automatic Pressure Calibrator Module

- **2, 5, or 10bar versions available**
- **Accuracy 0.04% of full scale**
- **Pneumatic with regulator**
- **Pre-set 5 point calibration**
- **4.5 digit display**
- **Up to 5 engineering units**
- **Over-pressure alarm**
- **RS-232 serial interface**
- **Control & readback via EasyCal**

DESCRIPTION

A pneumatic pressure module designed to speed up routine calibration of pressure gauges, indicators and pressure transmitters. Features include a 4.5 digit LCD display with 5 selectable pressure units, zeroing switch, regulated output, and vent button. Accuracy is 0.04% of range and a maximum display resolution is 0.005% of range. Line pressure must be provided via the input port on the rear of the console with quick release connection.

The 7032 allows the generation of 4 precision pressures that can be adjusted individually by front panel mounted regulators. Typically a 5 point calibration at 0%, 25%, 50%, 75%, and 100% of full scale can be used. These pressures can be quickly switched to the front panel output port either manually or via remotely generated RS-232 commands. Time Electronics EasyCal calibration software allows calibration procedures to provide the control signals required. If the 7032 is fitted in a bench with the 7051 bench control module the two RS-232 ports are internally connected to the 7051. EasyCal (installed as standard) then controls the regulator selection and can readback the displayed pressure output.

With EasyCal procedures can be quickly created for a variety of pressure devices. Calibration results are automatically stored on the 7051, and can be printed on demand. Closed loop calibration of pressure transducers can be fully automated by implementing transmitter readback using the 7051's internal DMM.

The 7032 is an accurate and simple operation module suitable for rapid testing of pressure gauges, transmitters, transducers, and switches in process plants, offshore platforms, refineries, and many other on-site testing facilities.

SPECIFICATIONS

Range (bar)	2	5	10
Accuracy (% of fs)	0.04	0.04	0.04
Resolution (bar)	.0001	0.001	0.001

Temperature Stability	Less than 70ppm per °C
Linearity	0.02% of full scale
Units	bar, PSI, kPa, MPa, inWg, cmWg, inHg, mmHg, Kg/cm², atm (5 units only, specify on order)
Maximum Line Pressure	2 x range
Sensor	Piezo-resistive - stainless steel diaphragm
Over Pressure Warning	1.2 x range full scale - audio and visual (on LCD) warning
Fittings	Quick Release
Rear Connections	Quick Release
Interfaces	2 x RS-232. One for regulator control, one for readback
Module Width	340mm (primary or secondary console fitting)

ORDERING INFORMATION

7032 .... **Automatic Pressure Calibrator Module** (+ pressure range code & 5 pressure units – shown below)

Range (bar)	2	5	10
Option Code	7101	7102	7103
Select 5 Units	bar, PSI, kPa, MPa, inWg, cmWg, inHg, mmHg, Kg/cm², atm		

ECFLA	EasyCal Calibration Software. See separate datasheet for further information.
C178	Factory Calibration Certificate (NPL traceable)
C190	UKAS Calibration Certificate (ISO 17025)

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