Time Electronics

7066 Differential Pressure Calibrator Module

- **0.2, 2, 5 and 10bar versions available**
- **Best accuracy 0.04% of full scale**
- **Pneumatic**
- **Calibrate DP transmitters, gauges & more**
- **4.5 digit display**
- **5 selectable pressure units**
- **Over-pressure alarm**
- **RS-232 serial interface**
- **EasyCal software compatible**

DESCRIPTION

The 7066 is a precision module designed for very stable measurement of differential pressures between its two output ports, enabling the calibration of differential pressure gauges, transducers, and transmitters. There are five available versions, according to the required range, either 0.2, 2, 5, or 10bar.

Front panel features include a 4.5 digit LCD display with 5 selectable pressure units, zeroing switch, and two quick release connector ports (Hi and Lo for differential pressure input). Best accuracy is 0.04% of full scale

The module is fitted as standard with an RS-232 interface which is accessible on the rear of the CalBench console or internally connected to a 7051 calibrator/control centre. This enables communication and read back with EasyCal calibration software (supplied as standard with the 7051 multifunction calibrator/control centre module). With EasyCal the user can define and perform pressure calibration procedures as well as create and print traceable calibration certificates.

For input pressure Time Electronics have a range of pumps including the 7190 benchtop pneumatic pump for precison low pressure control (-0.4bar to 0.4bar), 7191 low range pneumatic pump (vacuum to 4bar), and 7193 pump (vacuum to 40bar). Each pump features a double output manifold to enable connection to both the module and device under test. They can be used conveniently on the CalBench worktop to provide a precision pressure source to the 7066 and DUT, with a method that requires minimal user effort.

SPECIFICATIONS

Specifications are for 1 year at 23°C ±5°C. Accuracy includes linearity and long term effects. All accuracies are ±1 digit. For operation outside specified temperature range, apply 70ppm per °C

Range (bar)	0 to ±0.2	0 to ±2	0 to ±5	0 to ±10
Accuracy (% of fs)	0.1	0.04	0.04	0.04
Resolution (bar)	0.01mb	.0001	0.001	0.001

Units ..... 0.2bar: mbar, PSI, kPa, kg/cm2, cmWg / 2, 5, 10 & 20bar: bar, PSI, kPa, kg/cm2, cmWg.
Maximum Line Pressure 10bar
Sensor ..... Piezo-resistive - stainless steel diaphragm
Over Pressure Warning ..... 1.2 x range full scale - audio and visual (on LCD) warning
Connections ..... Quick Release
Interface ..... RS-232 for readback (using EasyCal on 7051 if ordered)
Module Width ..... 150mm (primary or secondary console fitting)

ORDERING INFORMATION

7066 ..... **Differential Pressure Calibrator Module** (+ pressure range code shown below)

Range (bar)	0.2	2	5	10
Option Code	**7100**	**7101**	**7102**	**7103**

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.