Time Electronics
7066 Differential Pressure Calibrator Module

- **Vacuum to 10bar versions available**
- **Best accuracy 0.04% of full scale**
- **Pneumatic**
- **Less than 70ppm/°C temperature stability**
- **4.5 digit display**
- **Up to 5 selectable engineering 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, and the module is built according to the customer's required range, either vacuum, 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 range and a maximum display resolution is 0.005% of range

The module is fitted as standard with an RS232 interface situated on the rear of the CalBench console. This enables communication and readback with EasyCal calibration software (supplied as standard with the 7051 multifunction calibrator/control centre module). With EasyCal the user can define pressure calibration procedures and create and print traceable calibration certificates.

SPECIFICATIONS

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

Temperature Stability .... Less than 70ppm per °C
Linearity .... 0.02% of full scale
Units .... bar, PSI, Kg/Cm^2, inHg, mmHg, KPa, cmWg (5 units only, specify on order)
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 & 5 pressure units – shown below)

Range (bar)	Vac	0.2	2	5	10
Option Code	7111	7100	7101	7102	7103
Select 5 Units	Bar, PSI, Kg/Cm^2, inHg, mmHg, KPa, cmWg				

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