



## Features

- Vacuum to 600 bar versions available
- Best accuracy 0.04 % of full scale
- Pneumatic or hydraulic input connection
- Ideal for use with 7194 and 7195 pumps
- 4.5 digit display
- 5 selectable engineering units
- Over-pressure alarm
- RS-232 serial interface
- EasyCal software compatible

## Description

The 7065 is a precision indicator module that can be used for pressure or vacuum calibration. It is a simple operation module ideal for calibrating and cross-checking pressure gauges, sensors, transmitters, transducers, indicators, switches, and many other devices. The following versions are available; 0.2, vacuum to 2, 5, 10, 20, 35, 70, 100, 200, 400, or 600 bar.

Features include a 4.5 digit LCD display, 5 selectable pressure units, zeroing switch and pressure measurement input. Best accuracy is 0.04 % of full scale. The module is also fitted as standard with an RS-232 interface with internal communication to a control centre (standard with 8060 or 7051 if ordered).

The internal communication enables readback with EasyCal software. 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 7194A benchtop pneumatic pump (200 bar) and 7195 hydraulic benchtop pump (700 bar). 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 7065 and UUT, with a practical method of operation.

## Specifications

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

| Range (bar)        | 0 to 0.2 | Vac to 2 | 0 to 5 | 0 to 10 | 0 to 20 | 0 to 35 | 0 to 70 | 0 to 100 | 0 to 200 | 0 to 400 | 0 to 600 |
|--------------------|----------|----------|--------|---------|---------|---------|---------|----------|----------|----------|----------|
| Accuracy (% of fs) | 0.1      | 0.04     | 0.04   | 0.04    | 0.04    | 0.04    | 0.04    | 0.04     | 0.1      | 0.1      | 0.1      |
| Resolution (bar)   | 0.01 mb  | .0001    | 0.001  | 0.001   | 0.001   | 0.01    | 0.01    | 0.01     | 0.01     | 0.1      | 0.1      |

**Units**.....0.2 bar: mbar, PSI, kPa, kg/cm2, cmWg  
Vacuum, 2, 5, 10 and 20 bar: bar, PSI, kPa, kg/cm2, cmWg  
35 bar and above: bar, PSI, MPa, kg/cm2, Atm.

**Maximum pressure**.....2 x range, 1.5 x range for 20 bar and above versions.

**Sensor** .....Piezo-resistive - stainless steel diaphragm.

**Over pressure warning** .....1.2 x range full scale - audio and visual (on LCD) warning.

**Fittings**.....Minimess (quick release for low pressure ranges)

**Interface**.....RS-232 for readback (internal to control centre if ordered).

**Module width** .....100 mm (primary or secondary console fitting).

## Ordering Information

**7065.....Pressure Indicator Module (+ pressure range code shown below)**

| Range (bar) | 0.2  | Vac to 2 | 5    | 10   | 20   | 35   | 70   | 100  | 200  | 400  | 600  |
|-------------|------|----------|------|------|------|------|------|------|------|------|------|
| Option Code | 7100 | 7101     | 7102 | 7103 | 7104 | 7105 | 7106 | 7107 | 7108 | 7109 | 7110 |

**ECFLA**.....EasyCal Calibration Software

**C178**.....Traceable calibration certificate (Factory)

**C190**.....Accredited calibration certificate (ISO 17025)

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