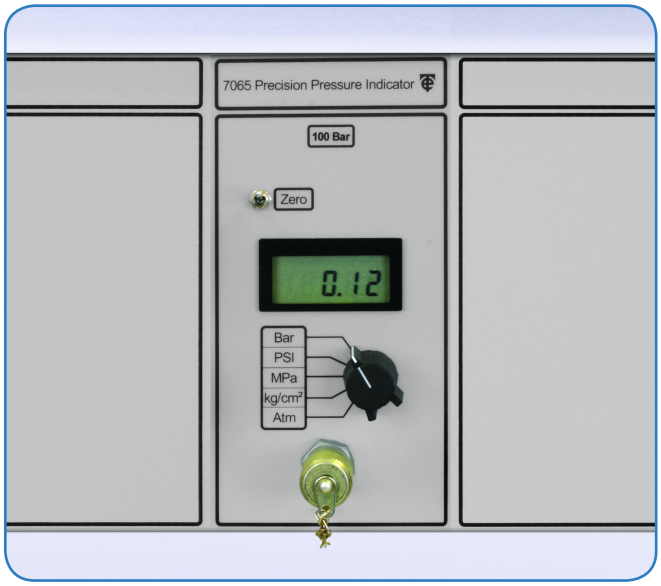
Time Electronics

7065 Pressure Indicator/Calibrator Module



- ***Vacuum to 600bar 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 600bar.

Features include a 4.5 digit LCD display, 5 pressure units, zeroing switch and pressure measurement input. Best accuracy is 0.04% of full scale. For input pressure Time Electronics have a range of pumps including the 7194 benchtop pneumatic pump (vacuum to 120bar) and 7195 hydraulic benchtop pump (vacuum to 600bar). 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 DUT, with a method that requires minimal user effort.

The 7065 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.

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	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)	0.01mb	.0001	0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.1	0.1

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

Maximum Pressure ..... 2 x range, 1.5 x range for 20bar 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 ..... Quick Release (under 20 bar) and Minimess (over 20 bar)

Interface ..... RS-232 for readback (using EasyCal on 7051 if ordered)

Module Width ..... 96mm (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. See separate data sheet for further information.

Pumps ..... 7194 / 7195: See separate data sheets for information, other pumps available.

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.