



- Combined vacuum & pressure calibration
- Best accuracy 0.04% of full scale
- Pneumatic with regulator
- 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 7059 is a practical pressure and vacuum calibration and control module. It offers a controlled transition between vacuum and pressure settings and can also be used to accurately measure input pressure or vacuum via the designated front panel port. There are four available versions, and the module is built according to the customer's required range; vacuum + 0.2, 2, 5, or 10bar.

The 7059 combines high accuracy with simple operation, and is ideal for vacuum and pressure calibration applications under 10bar. It is an easy to use module suitable for high volume work in process plants, offshore platforms, refineries, and many other on-site testing facilities. It is commonly used for calibration and maintenance of pressure gauges, sensors, transmitters, transducers, indicators, switches, and more.

Features include a 4.5 digit LCD display with 5 selectable pressure units, regulated output, vent control, and a front panel zero switch. Best accuracy is 0.04% of range and a maximum display resolution is 0.005% of range. Separate pressure and vacuum ports are provided on the rear of the console with quick release connections. For vacuum supply the 7149 electrical vacuum pump is available.

The module is fitted as standard with an RS-232 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, kPa, MPa, inWg, cmWg, inHg, mmHg, Kg/cm ² , atm (5 units only, specify on order)
Maximum Line Pressure	17bar (250psi)
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
Regulator Supply	Maximum of 15bar for 0.2, 2, 5, 10bar versions.
Interface	RS-232 for readback (using EasyCal on 7051 if ordered)
Module Width	129mm (primary or secondary console fitting)

ORDERING INFORMATION

7059 **Vacuum & 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, kPa, MPa, inWg, cmWg, inHg, mmHg, Kg/cm ² , 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.