

# **Description**

The 8030 is an advanced pressure controller/calibrator suitable for wide workload calibration of pressure devices such as transmitters, sensors and gauges. The standard unit can be configured for multiple ranges from vacuum to 100 bar (1500 psi), integrating up to three high accuracy reference sensors for maximum workload coverage. Additionally a barometric reference option enables absolute pressure emulation. High range versions up to 230 bar (3350 psi) are also available.

Due to its fully configurable design, the 8030 offers the maximum flexibility to end user requirements. Accuracy is 0.01 % FS for each internal sensor fitted, and control stability is 0.005 % FS of the active sensor range. This provides the necessary coverage for applications with outstanding accuracy, control and speed for testing applications.

### **Applications**

With up to three sensors integrated into the instrument the user is always offered an optimal calibration solution over a very wide pressure range. The 8030 is suitable as a high performance pressure standard in process plants, factories and calibration labs. Routine testing of pressure instrumentation is made quick and simple, whether using the 8030 touch screen display or via EasyCal calibration software.

#### **Functionality**

The 8030 features a colour touch-screen interface with user-friendly menus designed for simple operation, enabling users to quickly learn and master the operation of the module. Manually specifying pressure set points is made simple with clearly defined controls on the display. The 8030 auto-ranging capabilities enable each sensor to be actuated as pressure increase or decreases, providing optimal control and accuracy when performing applications.

The 8030 is also supplied with a virtual control panel application that provides a simple user interface for remote operation on a laptop or PC. Set and output pressure, and use the primary front panel buttons as per the instrument display.

The 8030 is supplied with a benchtop 2 port manifold and contamination trap as standard. Options include the 7165 compact compressor pumps that can supply pressure up to 70 bar. Vacuum pumps, UUT stands, adaptor kits, fittings and hoses are also available to optimise user set ups and applications.

### **Features**

- Multi-range controller configurable from -1 to 100 bar
- Configured based on end user requirement
- Gauge, compound, absolute, differential
- Up to 3 precision sensors built in
- Control stability 0.005 % FS (of active sensor)
- Auto-ranging capabilities
- Accuracy 0.01 % FS (of active sensor)
- Barometric reference option
- Touch screen user interface
- EasyCal software compatible
- High range pneumatic & hydraulic versions available

## **EasyCal Calibration Software**

The 8030 can be controlled via Time Electronics EasyCal software to automate the calibration process. This provides increased speed of calibration and consistency of results. Produce traceable calibration certificates and test reports for quality standards with additional uncertainty information for ISO 17025 conformance.



# **Technical Specifications**

Pressure ranges	1 tc	100	) bar	(1500 p	si).	Configured	based	on cust	omer ra	nge requ	irement.	

0.03 % FS for low range and differential sensors (30 mbar to 300 mbar).

Barometric reference option ...... Enables user to switch from gauge to absolute pressure.

Measuring range: 800 to 1,200 mbar absolute. Accuracy: 0.01 % RDG.

Control stability.....< 0.005 % FS of the active sensor.

**Control time** ......< 10 s.

Pressure ports .......Minimess type with hoses supplied. BSP and NPT available.

**Resolution** ......up to 6 digits (user selectable).

Response time ......approx. 10 ms.

Warm-up time ......approx. 10 minutes.

**Storage temperature** ....... 0 to 70 °C (32 to 158 °F).

Compensated temperature range ......15 to 35 °C (59 to 95 °F).

High pressure models can have up to 2 internal sensors plus 1 barometric reference.

Hydraulic version up to 1000 bar (see 8030-H data sheet).

### **Ordering Information**

8030Automatic Pressure Calibrator/Controlle	er
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Can be configured with up to 3 sensors and a barometric reference.

8030BARO.....Barometric reference option for 8030

7149.....Electical vacuum pump

Additional options include instrument UUT stands, fittings, manifolds, pressure adaptor kits, hoses. Available upon request.

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