

# LPG 800

Pneumatic precision pressure controller LPG 800. This modular instrument (up to 3 sensors) offers the maximum flexibility in terms of configuration to customer's requirements. It stands out due to its pressure sensors, which are based on the MEMS technology, and that combine maximum precision with highest long-term stability.

The LPG 800 achieves a control stability of 0.003 % FS of the currently active pressure range. The instrument is operated intuitively via a touch screen. All extended functions are accessible via submenues. Besides the optionally available calibration software DCal, which allows for comfortable calibration of pressure measuring instruments, including automatic creation of test certificates, the user is able to create own software programmes. For integration in existing systems an RS-232, Ethernet or optionally IEEE-488. 2 interface or an analogue output 4 - 20 mA are available.

Completely mobile or stationary test equipment can be manufactured upon request.



APPLICATIONS Laboratories Service industries and calibration services Research and development Transmitter calibration Long-term measurement

HIGHLIGHTS Up to 3 precision sensors Completely mobile/ stationary test equipment Analogue output 4 - 20 mA Modular design Very high measuring rate (up to 250 bar)

# CE

## Technical data

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Gauge pressure	(bar rel.) -1 1 0 2 -1 3 0 5 -1 10 0 20 -1 30 0 60 -1 100 / 250		
Absolute pressure	(bar abs.) $0-1$ $0-3$ $0-10$ $0-30$ $0-100$		
Differential pressure	(mbar) ± 30 ± 100 ± 300		
Function	barometric reference is required for the change of absolute pressure <=> gauge pressure. A pressure controller with relative reference sensors requires compound ranges for full functionality		
Pressure range	800 mbar to 1,200 mbar abs.		
Accuracy	0,01 % FS (Optional 0.008 % FS)		
Pressure units	23 and 1 freely programmable		
Instrument version	desktop case optional: 19" rack mounting with side panels incl. mounting kit		
Weight	approx. 7.0 kg (15.43 lb)		
Display resolution	6 digits		
Screen division	actual value, reference value, steps		
Keyboard	colour touch screen		
Response time	approx. 10 ms		
Pressure ranges	max. 3 pressure ranges and barometric reference		

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Pressure connections	G 1⁄6" female optional: 6 mm tube fitting or connection adapter		
Power supply	auxiliary energy 88 – 264 V AC, 47 – 63 Hz		
Medium	clean, dry, non-corrosive, non-combustible and no	on-oxidising gases	
Overage protection	150 % of the largest pressure range optional: external pressure relief valves		
Interfaces	RS-232, Ethernet		
Compensated temperature range	+15 to +35 °C (+59 to +95 °F)		
Operating temperature	+10 to +40 °C (+50 to +104 °F)		
Relative humidity	0 to 95 % r. h. (non-condensing)		
Storage temperature	0 to +70 °C (32 to +158 °F)		
Analogue inputs	4 – 20 mA or 0 – 10 V		
Instruction sets	LPG 800, alternative instruction sets possible, alignment to existing HOST software upon request		
Approvals and Certificates	EMC-Directive 2004 / 108 / EC, EN 61 326-1 emission (group 1, class A) and stability (industrial sector); calibration certificate 3.1, Optionally calibration certificate ENAC/ ISO 17025		
Optional			
Interface	IEEE-488.2		
Analogue output	0 – 1 V; 0 – 5 V; 0 – 10 V or 4 – 20 mA (16 bit)	Scope of delivery	
Switching outputs	24 V DC PWM or TTL level	Precision pressure controller Mains cable 1.5 m Operating instructions Calibration Certificate ISO 17025	
Analogue inputs	4 – 20 mA or 0 – 10 V, others upon request		

### **Further options**

The LPG 800 has 4 switching outputs that can be used for options. Furthermore, up to four precision sensors can be actuated

#### **Option M**

- The following features were integrated:
- On and off switch for a vacuum pump
- · Internal separation of regulator and test item
- An additional ventilation valve for the test item side
- This option is suited, for example, for pressure gauge adjustment

#### **Option StdBy**

A valve uncouples the regulator and the precision sensors from the test item connection This option is required, in order to operate several LPG pressure controllers in parallel

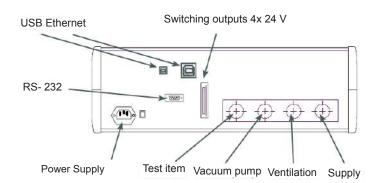
#### Option Rack (only in combination with Option StdBy)

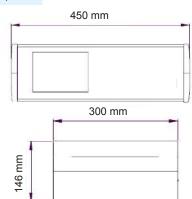
With this option, several LPG pressure controllers can be combined in one controller unit. Sensors,

e.g. barometers, can also be mirrored to connected LPG pressure controllers

#### **Option Vac**

With this option, a 24 V signal can be actuated, in order to switch a vacuum pump on or off, for example





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