

9196 HIGH PRESSURE CALIBRATOR



- **Built-in rechargeable high pressure gas volume**
- **High accuracy, $\pm 0.05\%$ F.S. (0.04% R option)**
- **SS 316 high pressure tubing and fittings**
- **Over pressure protection**
- **Separate analogue monitor gauges for charge, regulated and test pressures.**
- **Battery (with integrated charger)/mains powered**
- **Suitable for use with oxygen systems (option)**
- **RvA calibration certificate**
- **Multi-language graphic display with backlite**

Options:

- **RS232 Interface**
- **Interactive calibration routines, data entry and storage capability (RS232 required)**
- **Pressure switch test with graphic status indication**
- **integrated vdc transmitter supply**
- **AutoCal calibration management software**

The digital pneumatic portable calibrator Model 9196 is designed for the supply and measurement of high pneumatic pressures. Model 9196 can be used for calibrating and testing high pressure transmitters, pressure switches, safety valves, etc. The built-in high pressure gas bottle and battery make it possible to use this testunit at all locations, independent of any external pressure source or mains supply.

Operation

Once the instrument to be tested/ calibrated is connected to the testconnection, the maximum test pressure can be set by means of the high precision pressure regulator. The set pressure can be read on the monitor gauge. Two needle valves are used for fine adjustment of the pressure. The test pressure is indicated on the digital display. The electrical output signal from a transmitter can be read simultaneously on this display. A third monitor gauge, connected in parallel to the digital gauge, is used as a "help" for quick adjustment of the test pressure.

TECHNICAL SPECIFICATIONS

Accuracy

± 0.05% F.S.

Option : 0.04% R (10 - 100% F.S.) valid between 5 and 45°C.

All stated accuracies include linearity, hysteresis and repeatability.

Digital pressure gauge

2198 P (see 2198P Series brochure)

Monitor gauges

3 Analogue 63mm monitor gauges in the frontpanel, indicating the:

* Bottle pressure: 0-200 bar

* Regulated pressure; see ranges

* Test pressure; see ranges

Integrated Gas Volume

2 litre capacity, maximum working pressure 200 bar, complete with overpressure relief valve

Regulator

Range : in accordance with the range of the digital pressure gauge, max. pressure 350 barg

Needle valves

Fine control valves with soft seat and tight shut-off.

Connections

2 Test connections plus 1 filling connection:
Minimess 1215, quick connect couplings

Test hose

Minimess 1215 , length 1.5 metres
1/4" NPT male coupling

Filling hose

Minimess 1215, length 1.5 metres

Overpressure protection

Pressure limiting valve

Tubing and fittings

Material: SS316

Connection piece

For connection of the filling hose to a nitrogen/ air bottle, standard RU-3

Housing

Aluminium case with detachable lid

Dimensions

405 x 295 x 255 mm (l x w x h)

Weight

Approx. 15 kg

Power

Battery (with integrated charger) and mains powered.
Operating time on battery approximately 16 hours intermittent use

Certification

RvA (Dutch Accreditation Council) Calibration certificate on pressure ranges, issued by the Tradinco Calibration Laboratory, traceable to international standards and ISO certificate on electrical input ranges

Model: 9196	
Sensor Range:*	
1	0-100 barg
2	0-250 barg
3	Others*
Sensor Type:	
AG	Silver Series (0.05% FS)
AU	Gold Series (0.04% R)
Electrical Input:	
E	mAV
X	mA with 24VDC for externally powered transmitters
Voltage:	
4	230V
6	110V
Mechanical:	
MC	Separate connection for secondary sensor (option)
Electrical Output:	
OR	RS232 serial interface Including software
OM	Data Storage capability+ RS232
S1017	Pressure switch detection

Notes:

* Next to the 100 bar or 250 bar sensor, the 9196 can be equipped with a variety of sensors as well as a second sensor for measuring only. For the available pressure ranges, please refer to the 3096/2100 brochure.

SPECIAL DESIGNS ON REQUEST



Rev.11/03 9196_e.pdf