

- High accuracy, $\pm 0.5\%$ F.S. (0.25% F.S. option)
- Simple, efficient operation
- Protected against overpressure
- Built-in refillable high pressure storage system
- Low consumption of air or nitrogen
- Separate analogue monitor gauges for storage system and regulated pressure
- 316 high pressure tubing and fittings
- RvA calibration certificate



The analog pneumatic portable calibrator Model 8185 is designed for the supply and measurement of high pneumatic pressures. Model 8185 can be used for calibrating and testing high pressure transmitters, pressure switches, safety valves, etc. The built-in high pressure gas storage system makes it possible to use this test-unit at all locations, independent of any external pressure source.

Operation

The built-in high pressure gas storage system is filled through the appropriate connection, separate monitor gauges are mounted to indicate storage system pressure and regulated pressure. With the high pressure regulator the maximum test pressure is set. The test-pressure at the two test connections is precisely controlled by two fine metering needle valves. The precision test-gauge shows the test-pressure. Externally generated pressures can also be measured via the testconnections. For low pressure applications, e.g. below 10 bar, a second pressure gauge can be mounted on one of the testconnections. This extra gauge with pressure limiting valve and quick-connector can be stored in the lid of the Model 8185. The instrument is supplied with test-hose and test connection 1/4"NPT, filling hose, refill connection and a RvA calibration certificate. As an option the instrument can be equipped with an additional Volume Controller for ultra fine pressure control.

Technical Specifications

Accuracy	± 0.5% F.S. ± 0.25% F.S. available on request
Pressure gauge	Analogue, dial size 160 mm, protected against overpressure
Monitor gauges	Supply Pressure: 0.-250 bar, dial size 63 mm Regulated pressure: see ranges
Gas storage system	2 litre capacity, maximum working pressure 200 bar
Regulator	Model 8810 High Pressure Precision Regulator Range; on accordance with pressure gauge ranges
Needle valve	Fine control valve with soft seat and tight shut-off.
Connections	Minimess 1215, quick connect couplings with internal shut off valve
Test hose	Minimess 1215, length 1.5 metres 1/4"NPT male coupling
Filling hose	Minimess 1215, length 1.5 metres
Refill connection	For connection to nitrogen bottle, standard RU-3
Housing	Aluminium case with detachable lid
Dimensions	405 x 295 x 255 mm (L x B x H)
Weight	Approx. 14 kg
Certification	RvA (Dutch Accreditation Council) calibration certificate issued by the Tradinco Calibration Laboratory./ Traceable to the international standards.
Standard supply includes	Test-hose and test-connection 1/4"NPT Filling hose Refill connection RvA certificate

ORDERING CODE	RANGE
8185 -10	0 - 10 bar
8185 -16	0 - 16 bar
8185 - 25	0 - 25 bar
8185 - 40	0 - 40 bar
8185 - 60	0 - 60 bar
8185 - 100	0 - 100 bar
8185 - 160	0 - 160 bar
8185 - 250	0 - 250 bar

OPTIONAL	DISCRIPTION/RANGE
8186 - 10	0 - 10 bar extra test gauge with pressure limiting valve
8186 - 16	0 - 16 bar extra test gauge with pressure limiting valve
8186 - 25	0 - 25 bar extra test gauge with pressure limiting valve
8186 - 40	0 - 40 bar extra test gauge with pressure limiting valve
8186 - 60	0 - 60 bar extra test gauge with pressure limiting valve
8186 - 100	0 - 100 bar extra test gauge with pressure limiting valve
8186 - 160	0 - 160 bar extra test gauge with pressure limiting valve
8186 - 250	0 - 250 bar extra test gauge with pressure limiting valve
8187	Bracket for extra test gauge mounted in lid
Volume controller	

Distributor: