

9198 PRESSURE CALIBRATOR



- Air tight housing high impact
- High Accuracy, $\pm 0.05\%$ F.S. (0.04% R option)
- Many pneumatic configurations
- Simple, efficient operation
- Ergonomic design
- Simultaneous Pressure and Electrical readout of Pressure, mA, Volt, Temperature
- Transmitter supply
- Dual power supply, mains/battery
- Battery charger integrated
- Easy access to battery compartment
- Suitable Ni-Mh and alkaline batteries
- Easy operation and multi-functional
- Wide choice of pressure ranges
- Multi- language display
- User Programmable Pressure Units
- Peak hold and Electronic zeroing
- Pressure Switch Test Function
- Ranges 0.1 to 1000 bar
- RS232 Interface

The digital pneumatic portable calibrator Model 9198 is designed for test, measurement and calibration of pressure switches, safety valves, etc. The water tight housing and the dual power supply make it possible to use this test unit at all locations, independent of power supply.

The Tradinco 9198 series combines maximum functionality and application dedicated configurations, allowing the user to perform his calibrations in a very easy way. The instrument is menu driven through numeric tactile keyboard. The large inclined graphic display is easy to read and gives you all the required information. By using the latest SMD technology the stability of the measurement has improved significantly.

Ordering code	
Version	Configuration
9198 LPC	Low pressure calibrator
9198 PC	Pressure calibrator
9198 P	Pressure indicator

	Configuration	Note	LPC	PC	P
	Range				
2G	100 mbarg	1	x		x
BG	160 mbarg	1	x		x
WG	250 mbarg	1	x		x
CG	400 mbarg	1	x		x
DG	600mbarg	1	x		x
3G	1 barg		x	x	x
3V	-1 barg				x
4A	1.1 bara				x
EG	1.6 barg			x	x
FG	2.5 barg			x	x
HG	4 barg	1		x	x
JG	6 barg	1		x	x
5G	10 barg			x	x
5A	10 bara				x
KG	16 barg				x
LG	25 barg				x
MG	40 barg	1			x
NG	60 barg	1			x
6G	100 barg				x
PG	160 barg				x
7G	250 barg				x
YG	400 barg	1			x
ZG	600 barg	1			x
8G	1000 barg	1			x
9G	2500 barg	1			x
4B	1.1 bara ref.		x	x	x

Notes:

Each instrument can be supplied with two integrated pressure sensor. If the range of the second sensor is not within the range of the first sensor or if the ratio between the ranges exceeds 1:10, a separate connections is required.

The separate connection is for measurement only and is not controlled

1) Silver Series only

Standard deliveries includes:

9198 Calibrator, traceable calibration certificate, Windows advanced-menu enable software, electric test leads 2/4 mm. Polyflo quickconnector (-1 to 10 bar range) or Minimesse hose and 1/4"NPT adaptor (20 to 600 bar range)



Accuracy

Pressure measurement:

(Including non-linearity, hysteresis and repeatability): Silver Series 0.05% FS. Gold Series 0.04% R between 10 and 100% of full scale and between 5°C and 45°C (dynamic temperature compensation).

Electrical measurement: 0.05% of reading.

Certification

Accredited calibration certificate issued by the Tradinco Calibration Laboratory on pressure sensor, which is accredited by the RvA (Dutch Accreditation Council). CE certified.

Communication (option)

RS232

Housing:

Heavy duty carrying case, water tight. 460mmx370mmx170mm (WxLxH)

Electrical connections

3x4 mm input sockets.

Electrical measurement and output

0-24 mA, 0-10 Vdc. Optional 24V Transmittersupply

Graphic Display

128 x64 Dots.

Simultaneous readout of pressure and mA/V and function keys

Keyboard

20 switches with tactile and audible feedback.

Memory capability (option)

32 calibration procedures

Multi-lingual

Select between English, Dutch, French and German.

Operating temperature range

Ambient temperature; -10 to + 50 °C.

Pressure medium; Max 150 °C.

Overpressure

Maximum 150% of pressure range.

Power supply

115/230 VAC, ± 10%; 50/60Hz + exchangeable batteries at the front 5xC-type (Ni-Mh/alkaline), Internal battery charger

Pressure connection

-1 to 10 barg: Polyflo/hose connection

10 - 600 barg: Minimesse 1215

Above 600 barg: high pressure cone connection

Pressure media

Gas only, all media compatible with stainless steel and buna-n.

The 9198P indicator is also suitable for liquid.

Pressure scale units

All pressure units (SI & ANSI) can be selected by user.

Re-adjustment

Re-adjustment by means of advanced menu via a software package included in the delivery.

Resolution

Silver Series: 3, 4 or 5 digits, switchable.

Gold Series: 4, 5 or 6 digits, switchable.

Response

Measurement 200 times per second.

Display update 3 times a second.

Scaling function

mA scaling to any pressure unit or percentage

Signal filtering

Adjustable signal filtering (damping) for unstable sources.

Storage conditions

Clean and dry. Maximum temperature 70°C

Switch test (option)

Test dry-contact (non powered) pressure switches; display hold pressure value when switch is closed or opened. Switch status graphically shown on display.

Temperature effect

Silver Series: Typical 0.015% FS/°C from 20°C

Gold Series: none between 5 and 45°C

Weight

10/12 kg

Zero control

Pressure, mA and VDC via keyboard