

2198PC Pressure Calibrator



Configuration

- Combined pressure indicator and manual pressure controller
- Tradinco pressure controller with very high control resolution
- Leak free easy operated pneumatic on off switch for leaktesting
- Volume controller for fine tuning
- Suitable for dead end systems
- Quick connect test connection with automatic shut off valve
- Needle valve for venting off the test pressure
- To be supplied with external gas pressure
- Suitable for all non corrosive and toxic gasses

Utilities:

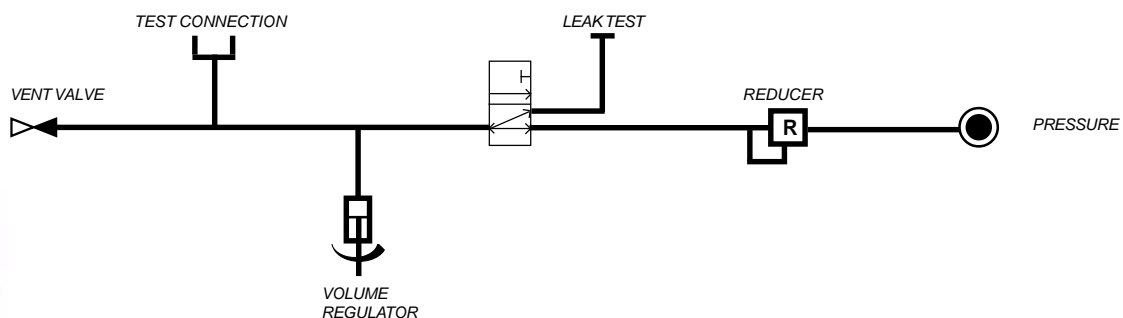
Mains: 115/230VAC \pm 10%, 1 ph, 50-60 Hz
Pressure supply: 15 bar max.

Pressure connections:

Pressure supply connection: hose connector, 1/4" O.D.
Test connection: Polyflo quick connect; 1/4" OD. (1/4" NPTF adaptor available)

Please refer to the data sheet 2198 series for general specifications.

Pneumatic diagram



TECHNICAL SPECIFICATIONS

Orderingcode										
Version	Configuration									
2198LPC	Low pressure calibrator									
2198 PC	Pressure calibrator									
2198 HPC	High pressure calibrator									
2198VC	Vacuum calibrator									
2198AC	Absolute pressure calibrator									
2198P	Pressure indicator									
2198DP	Differential pressure indicator									
Configuration		20	0 P	0 P	0 P	0 V	0 A	P	P	
Range		et	PL	0 P	0 P	0 V	0 A	P	P	
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	600 mbarg	1	X					X		
3G	1 barg		X	X				X	X	
3V	-1 barg					X		X		
4A	1.1 bara						X	X	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	X	
5A	10 bara							X	X	
KG	16 barg				X			X	X	
LG	25 barg				X			X	X	
MG	40 barg	1			X			X		
NG	60 barg	1			X			X		
6G	100 barg				X			X	X	
PG	160 barg				X			X	X	
7G	250 barg				X			X	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			X		

Notes:

Each Instrument can be supplied with two integrated pressure sensors. 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 connection is required. The separate connection is for measurement only and is not controlled.

- 1) Silver Series Only.

Standard delivery includes:
2198 Calibrator, traceable calibration certificate, Windows advanced-menu enable software, electric test leads 2/4 mm. polyflo quickconnector (-1 to 10 bar range) or Minimesh hose and 1/4" npt adaptor (20 to 600 bar range)

Rev.06/05 2198PC_e.pdf

Distributor:

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 or IEEE488.

Dimensions

19" x 260mm x 2HE mm (LxWxH).

Electrical connections

3x4 mm input sockets.

Electrical measurement and output

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

Graphic Display

128 x64 Dots.
Backlight
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

Pressure connection

Polyflo/hose connection

Pressure media

Non corrosive, gas only.

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

1.5 - 5 kg.

Zero control.

Pressure, mA and VDC via keyboard.