

2198AC Pressure Calibrator



Configuration

- Combined pressure indicator and manual pressure controller
- Large volume internal tubing for vacuum pressure transport
- Suitable for test pressures below ambient and absolute pressures
- Control of test pressure by 3 special fine-needle valves
- Quick connect test connection with automatic shut off valve
- Needle valve for venting off the test pressure
- External vacuum pump required
- Suitable for all non corrosive and toxic gasses

Utilities

Mains: 115/230VAC \pm 10%, 1 ph, 50-60 Hz

Pressure supply: Vacuum: 0.15 mbara or lower

Pressure: max. 10 barg

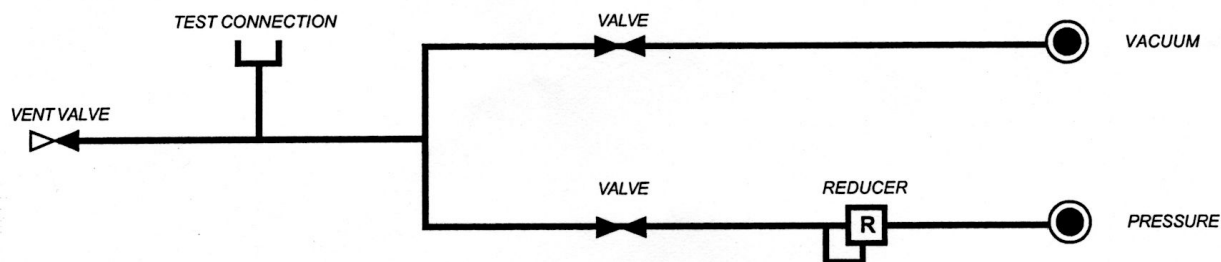
Pressure connections

Pressure supply connection: hose connector, 1/4"O.D.

Test connection: polyflo quick connect; 1/4"OD. (1/4"NPT adaptor available)

Please refer to the data sheet 2198 series for general specifications

Pneumatic Diagram:



Technical specifications

| Ordering code | | | | | | | | | |
|---------------|--------------|---------------------------------|-----|----|-----|----|----|---|----|
| Version | | Configuration | | | | | | | |
| 2198 LPC | | Low Pressure Calibrator | | | | | | | |
| 2198 PC | | Pressure Calibrator | | | | | | | |
| 2198 HPC | | High Pressure Calibrator | | | | | | | |
| 2198 VC | | Vacuum Calibrator | | | | | | | |
| 2198 AC | | Absolute Pressure Calibrator | | | | | | | |
| 2198 P | | Pressure Indicator | | | | | | | |
| 2198 DP | | Differential Pressure Indicator | | | | | | | |
| Configuration | | Note | LPC | PC | HPC | VC | AC | P | DP |
| 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 | 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 deliveries 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)



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 260 mm 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 x 64 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

Pressure media

Non corrosive, clean and dry air 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 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

Technical specifications subject to change without notice.