

# 2198VC Vacuum Calibrator



## Configuration

- Combined pressure indicator and manual pressure controller
- Control of test pressure by 2 special needle valves
- Large volumetric internal tubing for vacuum pressure transport
- External electrical vacuum pump required

## Utilities

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

Pressure supply: Vacuum pump

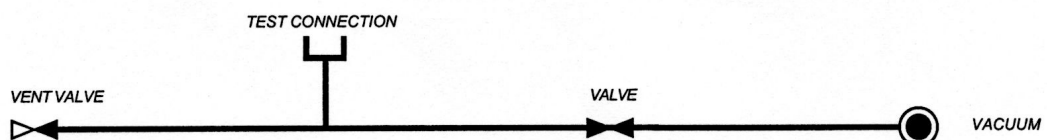
## Pressure connections

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

Test connection: Polyflo quick connect; 1/4"O.D. (1/4"NPTF 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.