

Automatic Pressure Controller 2198 G



- ✔ Automatic pressure control of test pressure
- ✔ Set pressure manually with menu driven functions or full automatic with AutoCal for Windows
- ✔ Automatic ramp function
- ✔ Test pressure can be set with numeric (target value) and arrows (steps)
- ✔ Time saving
- ✔ Pressure ranges from vacuum up to 420 bar
- ✔ High control resolution up to 1 : 3000
- ✔ Clear graphic display with backlite
- ✔ Multi language
- ✔ External Vacuum pump control
- ✔ Complete with IEEE488 interface

The 19" model 2198 G Pressure Controller allows automatic pressure control to perform easily and accurate calibrations of pressure instruments such as pressure transmitters, analog gauges etc.

With a simple keystroke, the required test pressure can be set, either in steps, direct to the set target value or by using the rampfunction. The combination with the 2198P pressure indicator and AutoCal for Windows calibration management software offers a full automatic calibration set-up.

This combination will increase your calibration output significantly: while one instrument is being automatically calibrated a technician can prepare the next instrument for calibration. Furthermore, using the Model 2198 G ensures compliance to calibration procedures.

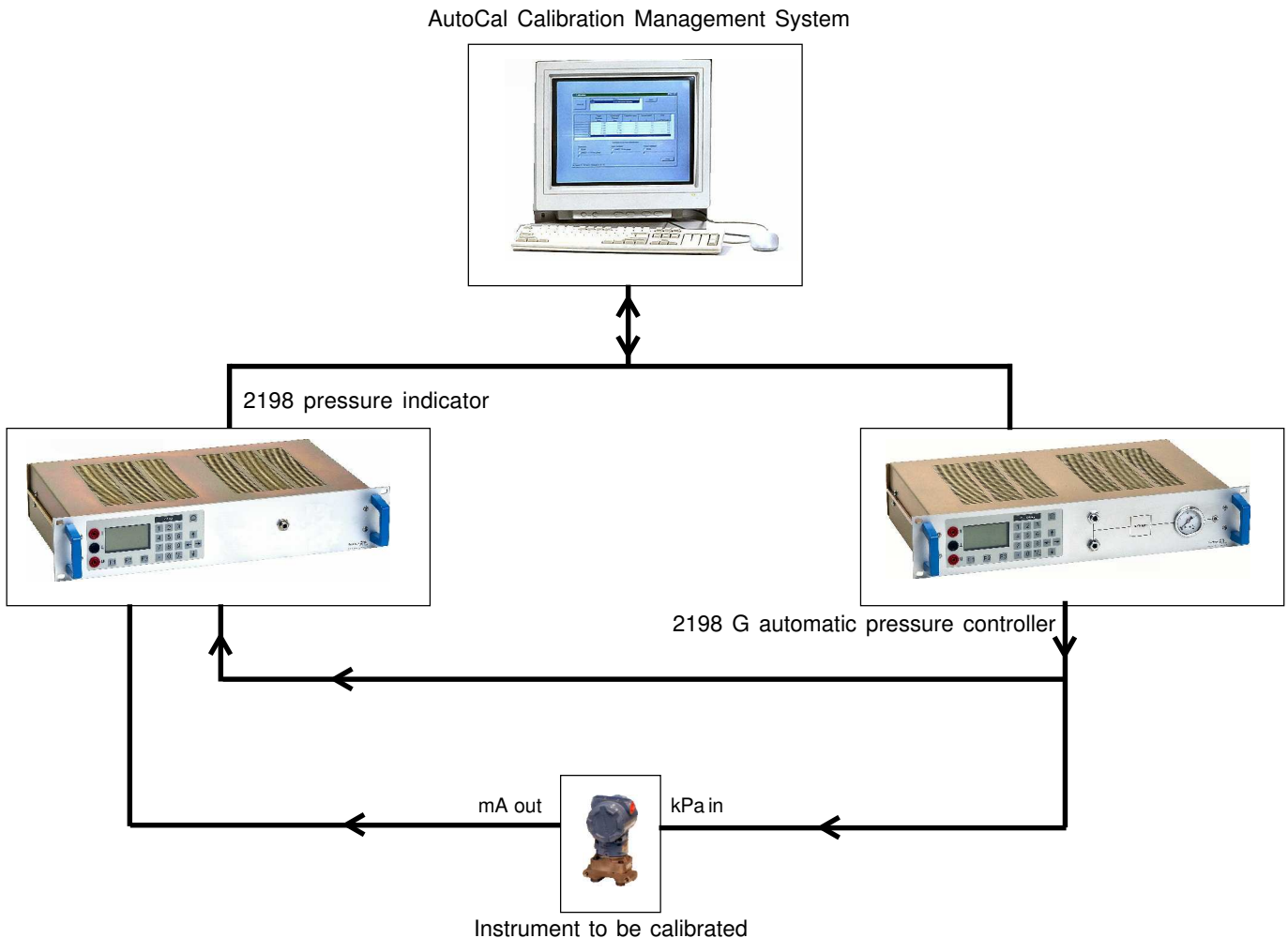
Operation

As shown on the typical configuration in this leaflet, the Model 2198 G is connected to a pressure supply (air or nitrogen) and, if applicable, also to a vacuum supply. Via a computer interface the Model 2198 G is connected to the AutoCal® Automatic Calibration System. A Tradinco Model 2198P Pressure Indicator with computer interface to AutoCal is required to measure the output pressure of the Model 2198 G. When the instrument under test has an electrical output signal (e.g. with a P to I or a P to U transmitter) this mA or V output signal can be measured using the same Model 2198 P Indicator. This unit is also connected via a computer interface to the AutoCal System.

Within the AutoCal® system each (pressure) instrument has a unique calibration procedure as defined by the user. This procedure contains the test pressures that have to be supplied to the instrument under test. According to this procedure, the AutoCal® system will direct the Model 2198 G to supply the first pressure step. As soon as the pressure as measured by the Model 2198 P has reached the desired level and is stable, the electrical output signal of the transmitter is measured by the same instrument. Both the measured pressure and the measured electrical output signal are transmitted to the AutoCal® system where they are recorded. Next, the AutoCal® system directs the 2198 G to supply the next pressure step. This procedure continues until the complete calibration has been performed. Manual control of the test pressure is possible by using the regulator which is located on the front panel of the unit.

For further information on the AutoCal® system and the Tradinco Model 2198P Pressure Indicators, please refer to the respective brochures.

Typical configuration:



TECHNICAL SPECIFICATIONS

Model	Control Range	Control resolution	Repeatability	Linearity/hysteresis
2198G1-1-220	-1 to 7 barg	0.03% of span	0.3% of span	0.4% of span (BFSL)
2198G1-2-220	-1 to 10 barg	0.03% of span	0.3% of span	0.4% of span (BFSL)
2198G1-3-220	0 to 35 barg	0.2% of span	0.3% of span	0.4% of span (BFSL)
2198G1-4-220	0 to 70 barg	0.2% of span	0.3% of span	0.4% of span (BFSL)
2198G3-6-220	0 to 7 to 250 barg	0.2% of span	0.3% of span	0.4% of span (BFSL)
2198G7-6-220	0 to 7 to 450 barg	0.2% of span	0.3% of span	0.4% of span (BFSL)
	Other ranges upon request			

Air supply connections:

Vacuum: 4x 6mm tube
 Low pressure (up to 10 barg): 4x 6mm tube
 Medium and high pressure: Minimes 1215

Test connections:

Vacuum: Polyflo
 Low pressure (up to 10 barg): Polyflo
 Medium and high pressure: Minimes 1215

Required air supply

Clean and dry instrument air or nitrogen

Vacuum: 0.13 mbara or better
 Low and medium pressure (up to 70 barg): 110% of control range
 2198G3-6: max. 350 barg
 2198G3-7: max. 600 barg

Engineering units: Bar (other units upon request)
 Overpressure protection: Pressure limiting valve
 Housing: 19" x 2HU for ranges up to 10 barg
 19" x 6HU for higher ranges
 Mains supply: 230VAC \pm 10%, 1 phase, 50 Hz
 Other mains supplies upon request
 Keyboard: Membrane with 20 switches with tactile and audible feedback
 Display: Graphic display, 128 x 64 dots, with backlight
 Communication: IEEE488 interface
 Power consumption: 100VA
 Mains connector: Europlug
 Weight: 2 - 8 kg

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Distributor:

Technical specifications subject to change without notice.