

MG13

ION MULTI GAUGE CONTROLLER



DESCRIPTION

The MG13 Multi Gauge Controller supports 2 vacuum gauges connected at the same time: One Bayard-Alpert (B-A) gauge and any other existing gauge on the market based on the 0-10V output standard. As standard, all of Leybold gauges are supported: ITR 100, ITR 90, DI 200, DI 2000, TTR 211 S, TTR 91, PTR 225. Any others can be implemented as an option. Although just 1U height, the controller is able to display both channels at the same time on the large alphanumeric LCD display. The high brightness display provides clear readout from large viewing angles and long distances. A useful feature of the MG13 is the availability of 4 interlocks, each of which can be separately programmed for each channel, including threshold levels and hysteresis. The measurement channels are active immediately upon power-up and ready for emission. Channel 1 is a dedicated channel for B-A gauges. It features very flexible B-A gauge parameter settings and is therefore suitable for use with almost all commercially available third party B-A gauges. The controller is perfectly suited for 2 stage pumps group units, where two ranges (low and high vacuum) need to be controlled. In addition, the emission control facility automatically controls the emission of B-A gauges for low vacuum measurement. The operational status of all triggers and transmitter outputs are also displayed. Unit can be remotely controlled via one of available interfaces.

FEATURES

- 19" rack mounted and only 1U height
- Measurement range from atmospheric to 2×10^{-11} mbar
- Controls almost all commercially available Bayard-Alpert gauges
- Degassing of Bayard-Alpert with power and time limit
- Supports Ir/W/Thoria filaments
- Bayard-Alpert overpressure protection
- Selectable measurement units: mbar, Torr, Pascal
- Gas specific correction with one customized setting
- Unit over-temperature protection
- Audible alarm
- Four individually programmable set-points with threshold and hysteresis functions
- User-defined channel name

TECHNICAL DATA

Supply voltage	90 - 230 VAC, 50 - 60 Hz (power consumption max 150 W)
Measurement channels	2
Display range	2×10^{-11} mbar - 2×10^5 mbar
Measurement range:	
Channel 1: B-A gauge	2×10^{-11} mbar
Channel 2: 0 - 10V DC input*	5×10^{-10} mbar
Setpoints (individual programming for each channel possible)	1×NO/NC, 3×NO
Suitable Gauges in standard**	TTR 211 S, TTR91, PTR225, ITR90, ITR100, PTR 90, B-A gauge, MKS Baratron**** and many others
Hysteresis	adjustable
Communication interface*** (option)	RS232/485/422, Ethernet/IP
User interface	large LCD display 2 × 16 characters, function keys
Dimensions	240 × 260 × 44 mm (W×H×D)
Weight (approx.)	3.8 kg

APPLICATIONS

- Any high and ultra high vacuum systems
- Measurement of pressure in wide range (from atmosphere to UHV)
- Bakeable and non bakeable systems

*related to the connected gauge **any other can be implemented on request *** Only one communication interface can be used at any one time and is chosen at time of order. However, this may be swapped/interchanged with any other communication interface at any future date via simple rear panel plug and play swap, without having to access the internals of the unit. **** please refer to manual



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