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Type 670B Electronics/Display Unit

The Type 670B Display Unit has a front panel that allows for full control of all the instrument's features. All functions can be monitored and controlled via the RS-232 or IEEE-488 interface. Range switching may be done manually or automatically with the 670B, selecting the lowest possible on-scale range. A key-lock switch on the front panel determines Local or Remote control. The 670B may be used with any sensor Full Scale and will display pressure in any one of 12 engineering units. Sensor response time may be set for 1, 40, or 400 msec, and a data averaging feature allows the user to average signals from 0.1 to 10 seconds, to optimize the pressure readings for transients or noisy pressures.



670B Features & Benefits

- Microprocessor-based electronics unit provides power, signal conditioning, and display for operating all MKS High Accuracy Baratron pressure sensors
- Analog and digital input/output signals facilitate interfacing to computers and process control systems
- Two built-in alarm relays provide process pressure trip points
- CE Mark compliant – meets requirements for European Union¹

670B Specifications

Compatible Sensors & Ranges

Display

Resolution

Engineering Units

Ranges

Response Time

Data Averaging

Outputs

Analog

Impedance
Connectors

Digital

RS-232 Connector
IEEE-488 Connector

Process Trip Point Relays

Operating Temperature Range

Power Required

Size

MKS Type 590, 615, 616, 690, 698, from 0.1 to 25,000 mmHg (Torr) F.S.

2-line LCD, readings updated twice/second
3½, 4½, or 5½ digits, user-selectable (Note: Useable system resolution depends upon sensor choice and application.)
Torr, mTorr, mmHg, mbar, Pa, kPa, inHg, inH₂O, cmH₂O, psi, % of F.S., ppm of F.S. (All user-selectable)

x1, x0.1, x0.01 of sensor F.S., manual or auto-ranging

1, 40, or 400 msec, user-selectable

0.1 to 10 sec, user-selectable

0 to ±10 VDC on each range into >10K Ω load
<1

I/O: 37-pin female Type "D", Remote signal: 9-pin male Type "D"

9-pin male Type "D"

24-pin female IEEE-488. 1 standard pin assignment.

Two, 24 VAC/DC @ 1 Amp resistive (contact ratings)
Two LEDs on front panel indicate status of each relay

15° to 40° C

90-132 or 180-264 VAC, 50-60 Hz, 75 VA (max.) IEC-AC power line connector

88 mm H x 240 mm W x 234 mm D (3.5" H x 9.5" W x 9.25" D)

¹Fully compliant to EMC Directive 89/336/EEC when used with an overall metal braided shielded cable, properly grounded at both ends.
Also compliant to Low Voltage Directive 72/23/EEC.

Type 670B Ordering Information

Ordering Code Example: 670Bxyz

Type 670B Electronics/Display Unit

Interface (xyz)

RS-232

IEEE-488

Code

670B

D21

D81

Configuration

670B

D21





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