Data Sheet

Model VR100

Secondary Electronics for Capacitance Manometers

Single Channel Power Supply and Display Module

Overview

The VR100 is a compact single channel power supply and display module for Brooks CMX0, CMX45 and CMC Series of Capacitance Manometers*

*VR100 can also be used to display vacuum reading from the high temperature CMX100 and CMX160 models

Product Description

- High accuracy 4 1/2 digit LED display
- Easy set up and operation via single-level menu structure and front panel membrane buttons.
- Four user programmable solid state, open collector set-points
- Compact 1/8" DIN package



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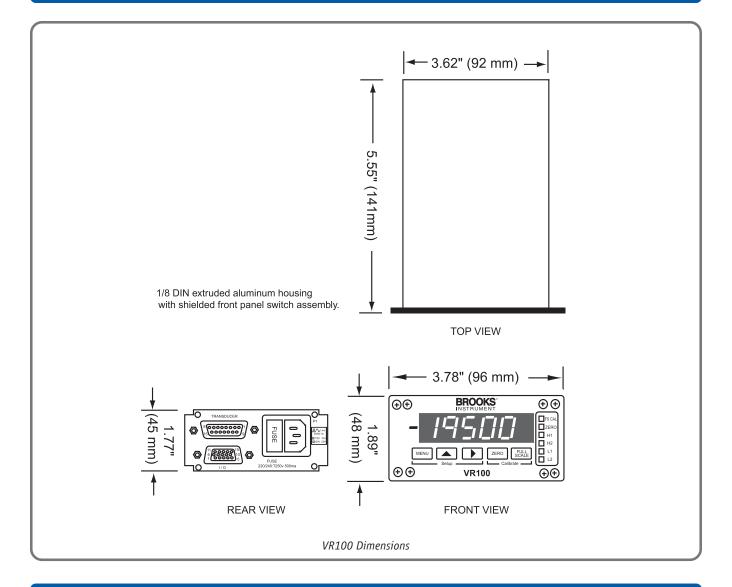




Product Specifications

Input	10 Mar full scale (from C in the stale)					
Signal Input	± 10 Vdc full scale (from Capacitance Manometer)					
Input Impedence	> 1 Megaohm					
Readout						
Display Type	0.4" high efficiency green LEDs					
Maximum Readout	±99,999					
Accuracy	$\pm 0.005\%$ of reading ± 2 counts					
Decimal Points	Selectable via front panel buttons					
Polarity	Minus sign displayed for negative readings					
Overrange Display	Flashing display indicates input > 10 Vdc					
No Sensor Indication	Display will flash overrange when sensor is not connected					
Output						
Sensor Signal	0-10 Vdc full scale (from Capacitance Manometer)					
Digital Communication	Bi-directional RS232C serial communication (optional)					
Input Power						
Voltage	100, 110 or 230 Vac @ 50-60Hz (selectable via ordering code)					
Current	150 mA (typ)					
Sensor Power Supply	;;					
Voltage	± 15 Vdc					
Current	250 mA max., short circuit current limited with thermal overload protection					
Compatible Sensors						
Unheated Capacitance Manometers	Brooks CMC, CMXO and CMX					
Heated Capacitance Manometers	Brooks CMX45					
Specifications						
Programmable Alarms	4 open collector transistors (2 high, 2 low) with adjustable hysteresis and status LEDs					
Adjustment Range	1 to 100%					
Voltage (maximum)	50 V					
Current (maximum)	100 mA					
Storage Temperature Range	+0 to +55°C					
Operating Temperature Range	-40 to +85°C					
Warm Up Time (at 25°C)	30 minutes					
Packaging	1/8 DIN					
Certifications						
EN55011: 1991						
EN50082: 1995						
EN50082: 1995 EN61010-1: 1993						

Product Dimensions



Model Code

Code Description Code		Code	Code Description
Ι.	Base Model Code	VR100	Single Channel Power Supply and Display
II.	Communication Protocols	0	Standard
		1	R5232C
III.	Power Input	1	100 Vac
		2	110 Vac
		3	230 Vac
IV.	Reserved	XXX	None

Sample Model Code

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VR100	1	2	

Accessories - Cables

LR1009P15	CMX/CMC with 9 pin sub D connector to VR100, 1 meter long
LR10015P15	CMX/CMC with 15 pin sub D connector to VR100, 1 meter long
LR1005T15	CMC 5 pin terminal block connector to VR100, 1 meter long

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Global Headquarters Brooks Instrument 407 West Vine Street Hatfield, PA 19440-0903 USA Toll-Free (USA): 888-554-FLOW T: 215-362-3500 F: 215-362-3745 BrooksAM@BrooksInstrument.com

A list of all Brooks Instrument locations and contact details can be found at <u>www.BrooksInstrument.com</u>



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