




Specifications

	Type 246	Type 247	Type 647
Power Supply/ Readouts			
	Single-Channel, Power Supply/Readout	Four-Channel Power Supply/Readout	Four or Eight Channel Pressure Programmer/Display
Display Type	3 1/2 digit 0.56" red LED, continuous display	3 1/2 digit 0.56" red LED, display is 1 of 4 sequentially selectable	LCD display provides simultaneous readout of all flow channels and 1 pressure channel; Display is continuous
Number of Channels	1	4	4 or 8
Signal Inputs from MFC/MFM	1 x 0-5 VDC	4 x 0-5 VDC	4 or 8 x 0-5 VDC
Gas Correction Factor (Scaling)	0.1 - 4.0 (rear panel)	0.1 - 4.0 (rear panel)	User-selectable
External Set Point (by-passes on-board set point controls)	0-5 VDC	0-5 VDC	1 x 0-10 VDC (PCS), 4 or 8 x 0-5 VDC (flow signal)
External ON/OFF	TTL-compatible	TTL-compatible	TTL-compatible
RS-232	n/a	n/a	Standard
MFC/MFM Signal Output	Minimum load impedance: 10 k Ohm/channel	Minimum load impedance: 10 k Ohm/channel	Minimum load impedance: 10 k Ohm/channel
Signal Outputs Unscaled	1 x 0-5 VDC = 0-100% of F.S.	4 x 0-5 VDC = 0-100% of F.S.	4 or 8 x 0-5 VDC = 0-100% of F.S.
Signal Outputs Scaled	0-2 VDC (max.)	0-2 VDC (max.)	1 x 0-5 VDC = 100% F.S.
Trip Points	n/a	n/a	2 relays per flow channel (optional)
Control Outputs	n/a	n/a	1 relay per channel
Power Supply Outputs	±15 VDC at 0.5 Amp, max. ripple < 10 mV	±15 VDC at 1.0 Amp, max. ripple < 10 mV	±15 VDC ±5% @ 3.3 Amps max., 0.5 Amps per channel
Power Input	117/234 VAC ±15%, 50-60 Hz	117/234 VAC ±15%, 50-60 Hz	100-240 VAC, 50-60 Hz, 200W
Compatible MFCs/MFMs	Mass-Flo Controllers Type 179, 180, 579, 1179, 1479, 1480, 1559, 1579, 2179, M10M, M100	Mass-Flo Controllers Type 179, 180, 579, 1179, 1479, 1480, 1559, 1579, 2179, M10M, M100	Mass-Flo Controllers Type 179, 180, 579, 1179, 1479, 1480, 1559, 1579, 2179, M10M, M100
Operating Temperature	15°C to 40°C	15°C to 40°C	15°C to 40°C
CE Compliance	Fully CE Compliant to EMC Directive 2004/108/EC	Fully CE Compliant to EMC Directive 2004/108/EC	Fully CE Compliant to EMC Directive 2004/108/EC

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