



Flow Solutions

WWW.MKSINST.COM

Power Supply/ Readouts

FOR MKS MASS FLOW CONTROLLERS/METERS



MKS Mass-Flow controllers/meters can be used with several MKS electronics modules. These modules provide power and a set point signal to the mass flow controller. In addition, the electronics modules provide a readout of gas flow, a gas correction potentiometer, and external input/output signals for remote indicating, recording, and controlling purposes.

246 & 247 Single & Four Channel Power Supply/Readout

The 246 and 247 Power Supplies/Readouts are designed to control and display any flow transducer. The flow rate set point can be adjusted either through front panel controls or remotely through the rear panel analog interface. The 246 is a single channel/single-readout unit and the 247 is a four channel/sequentially selectable single readout.



Specifications

	246	247
Power Supply/ Readouts		
	Single-Channel, Power Supply/Readout	Four-Channel Power Supply/Readout
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
Number of Channels	1	4
Signal Inputs from MFC/MFM	1 x 0-5 VDC	4 x 0-5 VDC
Gas Correction Factor (Scaling)	0.1 - 4.0 (rear panel)	0.1 - 4.0 (rear panel)
External Set Point (by-passes on-board set point controls)	0-5 VDC	0-5 VDC
External ON/OFF	TTL-compatible	TTL-compatible
RS-232	n/a	n/a
MFC/MFM Signal Output	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.
Signal Outputs Scaled	0-2 VDC (max.)	0-2 VDC (max.)
Trip Points	n/a	n/a
Control Outputs	n/a	n/a
Power Supply Outputs	±15 VDC at 0.5 Amp, max. ripple < 10 mV	±15 VDC at 1.0 Amp, max. ripple < 10 mV
Power Input	117/234 VAC ±15%, 50-60 Hz	117/234 VAC ±15%, 50-60 Hz
Compatible MFCs/MFMs	Mass Flow Controllers 179, 180, 579, 1179, 1479, 1480, 1559, 1579, 2179, M10M, M100	Mass Flow Controllers 179, 180, 579, 1179, 1479, 1480, 1559, 1579, 2179, M10M, M100
Operating Temperature	15°C to 40°C	15°C to 40°C



MKS Instruments, Inc. Global Headquarters

2 Tech Drive, Suite 201
Andover, MA 01810
Tel: 978.645.5500
Tel: 800.227.8766 (in U.S.A.)
Web: www.mksinst.com

MKS Instruments, Inc. Flow Solutions

Six Shattuck Road
Andover, MA 01810
Tel: 978.975.2350