

Flow Solutions

WWW.MKSINST.COM

Power Supply/ Readouts

FOR MKS MASS FLOW CONTROLLERS/METERS

MKS Mass-Flo® controllers/meters can be used with any of 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.

Type 246 & 247 Single & Four Channel Power Supply/Readout

The MKS Type 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

Power Supply/ Readouts	Type 246	Type 247
		
	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	179, 180, 579, 1179, 1479, 1480, 1559, 1579, 2179, M10M, M100, G-Series	179, 180, 579, 1179, 1479, 1480, 1559, 1579, 2179, M10M, M100, G-Series
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

MFCPS - 8/16
© 2004 MKS Instruments, Inc.
All rights reserved.

MKS products provided subject to the US Export Regulations. Diversion or transfer contrary to US law is prohibited.

Specifications are subject to change without notice. mksinst™ is a trademark and Mass-Flo® is a registered trademark of MKS Instruments, Inc., Andover, MA.