PC-510 & PC-540 Single & Four Channel MFC Readout Power Supply



Features

- Precision 10-Turn potentiometer mass flow setting
- Readout of actual mass flow rate SCCM/SLM
- 3¹/₂ digit bright red LED readout
- · Error alarm indicate
- Remote analog interface
- Independent shutoff valve control voltage output
- Output short circuit protection
- Full range 90~260Vac input

Description

The PC-510 and PC-540 MFC Readout Power Supply are display and control units for precision gas control in conjunction with MFCs.

The PC-510 is a single channel unit and the PC-540 is a four channel unit. This type readout may directly show gas mass flow rate and readout SCCM or SLM. The flow setting dial on the front pane can precisely adjust a precision 10-Turn potentiometer to insure accurate control. In addition, a warning message Error will be displayed when the actual gas flow rate is sufficiently different from the set point.

The Remote function on the back panel of the PC-510/PC-540 provides a convenient remote control interface allowing users to employ a remote device to directly control the flow without having to go through the front panel.

Besides the flow rate control functions, the PC-510/PC-540 can generate one/four independent +24Vdc output. This output may be used to control external shutoff valve and insure that gas is completely shut off.



Specifications	
Model	PC-510 MFC Readout
MFC Control	Single channel
	Power voltage +15±0.5Vdc/300mA max.
	-15±0.5Vdc/300mA max.
	Set point output 0 to 5Vdc@5mA
	Flow input 0 to 5Vdc
	Connector D-type 9-pin female connector
Display	3 1/2 digit red LED
	Continuous display of set point, flow input and
	full scale
Remote	Remote set point input 0 to 5Vdc into 100K ohms load
	Remote flow monitor output 0 to 5Vdc@5mA
	Remote set point enable TTL active low
	Remote gas on TTL active low
	Remote purge Dry contact for MFC purge
	Connector D-type 9-pin male connector
Shutoff valve	Single channel
	Power output +24Vdc/800mA max.
Power	90 to 260 Vac, 30W
	47 to 63Hz
Dimensions	96×96×222 mm
Weight	1172g
Panel Cutout	1/4DIN cutout (92+0.8mm×92+0.8mm)

PC-510\Front Panel



PC-510\Rear Panel





Specifications	
Model	PC-540 MFC Readout Power Supply
MFC Control	Four channel, independent
	Voltage output +15±0.5Vd /1A (total rating of
	1 Amp max)-15±0.5Vd /1A (total rating of 1 Amp max)
	Set point output4×0 to 5Vdc@5mA
	Flow input 4×0 to 5Vdc
	Connector 4 × Dtype 9-pin female connector
Display	4×3 1/2 digit red LED
	Continuous displays of set point ,flow input and full scale
Remote	Independent control for four channel MFC:
	Remote set point input 0 to 5Vdc into 100K ohms load
	Remote flow monitor output 0 to 5Vdc @5mA
	Remote set point enable TTL active low
	Remote gas on TTL active low
	Remote purge Dry contact for MFC purge
	Connector D-type 37-pin female connector
Shutoff valve	Four channel, independent
	+24Vdc/ 600mA (total rating of 2.4 Amp max)
Power	90 to 260 Vac ,10W
	47 to 63Hz
Dimensions	$88 \times 485 \times 260$ mm(H \times W \times D) (2U,full rack)
Weight	4150g

PC-540\Front Panel



PC-540\Rear Panel



