

PR4000B

Digital Power Supply and Readout



The PR4000B is a Digital Power Supply and Display module. It is available with either one or two channels, and has a 4.5 place backlit LCD display as standard. Both versions support internal or external set points and master/slave control schemes. The single-channel version can control one Baratron® pressure transducer or one Mass-Flo® meter or controller. The dual-channel version supports up to two pressure transducers or two mass flow controllers, or one of each.

Engineering units are user-selectable as Torr, mTorr, kTorr, Pa, kPa, cmH₂O, psi, N/qm, μbar, mbar and bar for pressure transducers; sccm, scm, slm, scfm, scfh for flow meters or controllers and V, % and °C.

Product Features

- Fully software and hardware compatible to PR4000A
- Versatile 4½-place digital LCD display/power supply unit for use with most MKS general purpose Baratron® pressure transducers and Mass-Flo® controllers (see ordering information)
- Two fully adjustable relay outputs for limit monitoring
- Analog input/output with 16-bit resolution
- Half 19-inch rack mount or table top
- Auto zero capability
- 1.5 Amp high power output for temperature controlled manometers



Key Benefits

- Digital RS-232 interface standard; RS-485 interface optional on two-channel models
- User-selectable engineering units for both pressure transducers and flow devices
- Menu-driven with simple set-up and operation

Specifications

Display Type	4½ digit backlit LCD display	
Number of Channels	1 for PR4000BS, 2 for PR4000BF	
Alarm Limit Relays	2, fully programmable	
Outputs	1 analog output per channel with 16-bit resolution	
Memory	Non-volatile memory, (for example, the last setting remains stored)	
Power Input	±15 VDC Units 24 VDC Units	<ul style="list-style-type: none"> 85-264 VAC, 47-63 Hz 90-264 VAC, 47-63 Hz
Ambient Operating Temperature	15° - 40°C	
Weight	2.4 kg (5.3 lbs)	
Compliance	CE	

Ordering Code Example: PR4000BS2V2

		Code	Configuration
Model	PR4000B Digital Power Supply and Readout	PR4000B	PR4000B
Functionality/Channels	Single-channel Dual-channel	S F	S
Interface	RS-232, standard RS-485, optional for dual channel only	2 5	2
Transducer Input	0 to ±5 and 0 to ±10 VDC	V	V
Power Supply	±15 VDC @ 1.5 Amps 24 Volts @ 1 Amp	2 3	2

Cables

Pressure Transducers

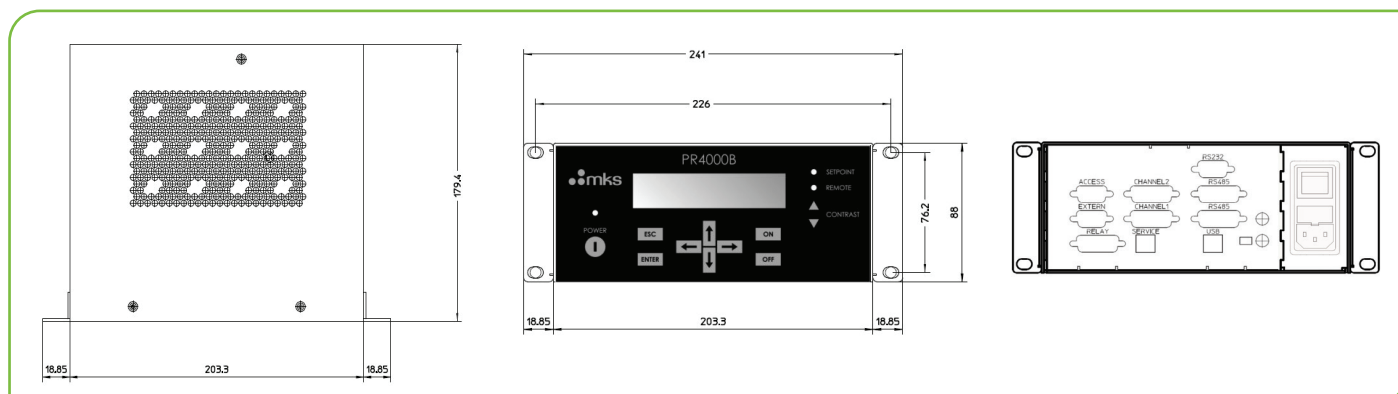
120 (down ranging of 120 with dual channel only)
 122, 124, 223, 622, 623
 127, 128, 626, 627, 628, 631B without trip point relay option
 220 (AC powered)
 121
 722 (9-pin D connector)

RCBE120-96-3M
 RCB112-2-10
 RCB259-5-10
 RCB220S-4-10
 RCB112-14-10
 RCB700-1-10

Flow Meters/Controllers

All MKS mass flow meters or controllers with 9-pin D connectors
 All MKS mass flow meters or controllers with 15-pin D connectors
 All MKS mass flow meters or controllers with 20-pin card edge

RCB147-12-10
 RCB147-1-10
 RCB147-7-10



Dimensional Drawing — Note: Unless otherwise specified, dimensions are nominal values in millimeters.