



Type PR4000B

DIGITAL POWER SUPPLY AND READOUT

The Type PR4000 Digital Power Supply and Readout module is available in both a one and two-channel version, with 4½-place LCD display. 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.

Features & Benefits

- Fully software & 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)
- Digital RS-232 interface is standard; RS-485 is optional for dual channel version
- User-selectable engineering units for both pressure transducers and flow devices
- Menu-driven with simple set-up and operation
- 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

Pressure
& Control
Measurement

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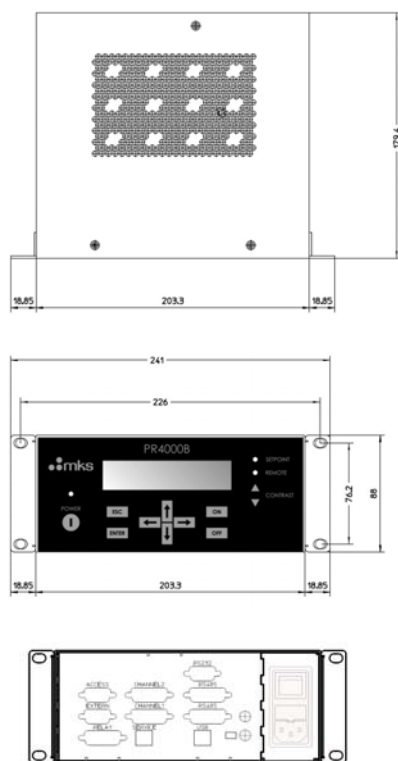
Specifications and Ordering Information

Display Type	4½ digit LCD display
No. of Channels	1 for Type 4000BS, 2 for Type 4000BF
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	85-256 VAC, 47-63 Hz
Ambient Operating Temperature	15° - 40°C
Weight	2.4 kg
CE Mark Compliance	Fully CE compliant to EMC Directive 89/336/EEC when used with an overall metal braided shielded cable, properly grounded at both ends
	Fully compliant to Low Voltage Directive 72/23/EEC

Electromagnetic compatibility

Product safety

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Dimensional Drawing —

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

Ordering Code Example: 4000BS2V2	Code	Configuration
Type PR4000B Digital Power Supply and Readout	4000B	4000B
Functionality/Channels		
Single-channel	S	S
Dual-channel	F	
Interface		
RS-232, standard	2	2
RS-485, optional for dual channel only	5	
Transducer Input		
0 to ±5 and 0 to ±10 VDC	V	V
Power Supply		
±15 VDC @ 1.5 Amps	2	2
24 Volts @ 1 Amp	3	

Cables

Pressure Transducers

Type 120 (down ranging of Type 120 with dual channel only)	CBE120-96-3M
Types 122, 124, 223, 622, 623	CB112-2-10
Types 127, 128, 626, 627, 628, 631B without trip point relay option	CB259-5-10
Type 220 (AC powered)	CB220S-4-10
Type 121	CB112-14-10
Type 722 (9-pin D connector)	CB700-1-10

Flow Meters/Controllers

All MKS mass flow meters or controllers with 9-pin D connectors	CB147-12-10
All MKS mass flow meters or controllers with 15-pin D connectors	CB147-1-10
All MKS mass flow meters or controllers with 20-pin card edge	CB147-7-10



MKS 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