CR-4000
"The Independent"

BW Technologies by Honeywell

Four Channel Gas Detection Controller

Now Class I, Division 2 Approved!

Loop Powered
Provides 24 VDC power to the gas sensing transmitter

FEATURES:

For continuous monitoring and control of toxic gases, combustible gases and oxygen hazards, the CR-4000 is designed for installation and operational simplicity.

△ Individual, continuous, alphanumeric "*status*" LCD for each channel

△ Slim profile: depth only 2.5 inches / 6.35 cm

△ Wall mount installation

△ Local 85 dB audible alarm

△ Field programmable alarm levels on each channel

△ Simple operation

△ Mix, match or change the gases monitored

△ Three standard common, 10 amp SPDT relays. Low, High and Fault general Alarms

△ Up to eight additional discrete relays optionally available - two per channel for LOW and HIGH alarms. Each channel is programmable for energized/de-energized, latching/non-latching and audible ON/OFF

△ Multi-functional external RESET. Can be used to reset or cancel all latched alarms; displays Peak (maximum) gas detected on each channel and tests all audible/visual alarms

△ Accepts 4-20 mA signal input from any 4-20 mA gas transmitter

ISO
ISO9001:2000
Registered

Fixed Gas Monitoring Systems

Ordering Information

CR-4000	4-20 mA AC/DC Controller with common relays (fault, low and high alarm)

Accessories and Options

CR4-R1000	4-20 mA AC/DC Controller with common relays plus discrete relays, low and high, on Channel 1
CR4-R1200	4-20 mA AC/DC Controller with common relays plus discrete relays, low and high, on Channels 1 & 2
CR4-R1230	4-20 mA AC/DC Controller with common relays plus discrete relays, low and high, on Channels 1,2 & 3
CR4-R1234	4-20 mA AC/DC Controller with common relays plus discrete relays, low and high, on Channels 1,2,3 & 4
Note:	Discrete relays 10 amp SPDT discrete low and high alarm relays
CR4-BAT1	Battery Back-up (110/220 VAC or 24 VDC)
CR-ALH05	External Audible/Visual Alarm

Compatible with BW 4-20 mA Gas Transmitters
GasPoint
GasPoint IR
RRJ Series

www.gasmonitors.com
e-mail: info@gasmonitors.com

CR-4000

Four Channel Gas Detection Controller

Simply select the pre-programmed channel switch for:
- △ Gas type
- △ Sensor range
- △ Alarm level

Standard Common Relays (included) High alarm, Low alarm and Fault

Special Features

Records and Displays Peak (Max) gas detected by each channel on demand.

Auto Fuses protect all circuits. Fuses reset automatically when the circuit power returns to normal. No fuse replacement required.

Accessories and Options

Relays (up to eight)
Two (2) factory installed 10 amp SPDT relays per channel. The Low Alarm/High Alarm independent discrete relays are user adjustable for power and assignment, including normally energized/de-energized, latching/non-latching and audible alarm activation.

Battery Backup
The two (2) 1.2 amp hr., 12 volt batteries can be installed at any time in the field.

Select from either of BW's 4-20 mA gas transmitters:
- GasPoint
- RRJ

Gas Detection Measuring Ranges

Combustibles: 0-100% LEL

O_2:	0-25% v/v
H_2S:	0-20, 0-50, 0-100, 0-500 ppm
CO:	0-50, 0-100, 0-200, 0-500, 0-1000 ppm
SO_2:	0-10, 0-20, 0-50, 0-100 ppm
NH_3:	0-50, 0-100 ppm
Cl_2:	0-5.0, 0-10.0, 0-100 ppm
HCN:	0-20.0, 0-50.0, 0-100 ppm
NO:	0-50, 0-100 ppm
NO_2:	0-10.0 ppm

Technologies
by Honeywell

For further information:

1-888-749-8878	**USA**
1-800-663-4164	**Canada**
+44 (0)1295 700 300	**Europe**
+33 (0) 442 98 17 70	**France**
+971-4-8871766	**Middle East**
+61-3-9464-2770	**Australia**
+86 10 6786 7305	**China**
+65 6748 4915	**South East Asia**
+1-403-248-9226	**Other Countries**

Corporate Headquarters
2840 - 2 Avenue S.E.
Calgary, AB, Canada T2A 7X9
Phone: 1-403-248-9226
Fax: 1-403-273-3708

e-mail: info@gasmonitors.com
www.gasmonitors.com

SPECIFICATIONS

POWER:	Field selectable for AC (115 and 230 VAC) or DC (24 VDC)
AC Input:	110 VAC 50-60 Hz standard; 220 VAC 50-60 Hz
DC Input:	24 VDC (18 to 28 VDC)
Backup:	Optional battery backup 24 VDC supply. Approx. 3 hours in normal operation

ENVIRONMENTAL

Operating Temperature:	-4 to +122°F/-20 to +50°C
Relative Humidity:	5 to 99% non-condensing
Enclosure Rating:	Nema 12

PHYSICAL

Dimension (dxwxh):	2.4 x 13 x 9.5 inches/6 x 33 x 24 cm
Weight:	4.85 lb./2.2 kg
Enclosure:	Enameled steel RFI/EMI protected
Wire Terminations:	Screw type terminal blocks
Wiring Ports:	Seven (7) each 3/4 inch/22 mm NPT ports
Mounting:	Wall mounted—equipped with hanging slots and hinged door

ALARMS:	Two set points per channel (user programmable)
Audible:	85 dB buzzer

OUTPUTS: Alarm Relays:	SPDT relays; 10 amp @ 110 VAC/24 VDC, 8 amp @ 230 VAC
	Standard: One (1) common low gas alarm, de-energized, non-latching
	One (1) common high gas alarm, de-energized, latching
	One (1) common fault alarm, normally energized, non-latching
	Optional: Two (2) per channel; one (1) low gas and one (1) high gas alarm
	Field selectable: energized/de-energized; latching/non-latching and audible alarm ON/OFF

DISPLAY PANEL

Backlit LCDs:	Four (4) independent 3 digit alphanumeric status displays
	Field selectable readouts for: %LEL, ppm and/or O_2 % v/v.
LED Indicators:	Alarms: Three (3) - "LOW" (red), "HIGH" (red), "FAULT" (amber)
	Power: Two (2) "ON" AC icon (green), DC icon (green)
	Gas: Concentration icons-ppm, %LEL , $\%O_2$,

CONTROLS:	Two (2) large pushbuttons: Alarm Reset/Acknowledge, Peak Exposures, Lamp Test (audible/visual alarm test)
	Alarm setpoints: simple up/down buttons

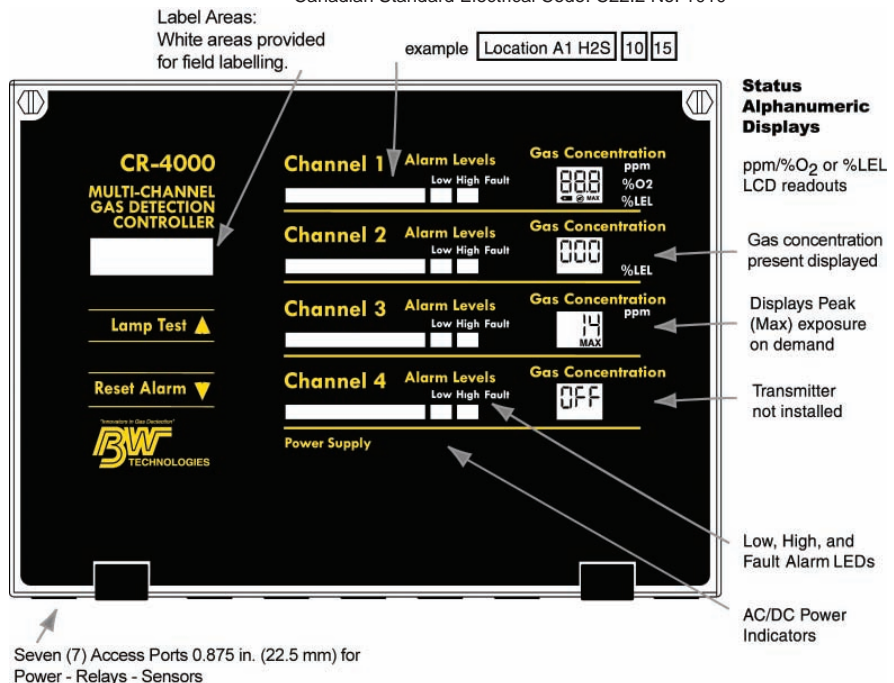|	
WARRANTY:	Two (2) years non-prorated

DUE TO ONGOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

RATINGS AND CERTIFICATIONS:
(INTRINSCALLY SAFE W/ BARRIER)

Ordinary location approved
Class I, Div 2, Groups A,B,C,D approved model available
International Electrical Code: IEC No. 61010
U.S. Standard: ANSI/ISA S82.01
Canadian Standard Electrical Code: C22.2 No. 1010

CE - conforms to European Union directives

Label Areas: White areas provided for field labelling.

example | Location A1 H2S | 10 | 15

Status Alphanumeric Displays

ppm/$\%O_2$ or %LEL LCD readouts

Gas concentration present displayed

Displays Peak (Max) exposure on demand

Transmitter not installed

Low, High, and Fault Alarm LEDs

AC/DC Power Indicators

Seven (7) Access Ports 0.875 in. (22.5 mm) for Power - Relays - Sensors

Locally distributed by: