

CR-4000

"The Independent"

"INNOVATORS IN GAS DETECTION"

BW
Technologies



Four Channel Gas Detection Controller



Loop Powered

Provides 24 VDC
power to the gas
sensing transmitter



ISO 9001

Fixed Gas Monitoring Systems

FEATURES

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

- ▲ "STATUS at a Glance" Individual continuous alphanumeric "Status" LCD for each channel
- ▲ Slim profile, depth only 2.4 inches (6.35 cm)
- ▲ Easy Installation - simply hang on the wall, connect the power (AC or DC) and gas transmitters
- ▲ 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 - 2 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

Ordering Information

CR-4000 4-20 mA AC/DC Controller

Accessories and Options

Optional 10 amp SPDT Low and High Alarm relays

CR4-R1000	Channel 1
CR4-R1200	Channels 1/2
CR4-R1230	Channels 1/2/3
CR4-R1234	Channels 1/2/3/4
CR4-BAT1	Battery Back-up (110/220 VAC or 24 VDC)

Compatible with BW 4-20 mA Gas Transmitters

GasPoint	CD-420
GasPoint IR	ToxyPoint
I. S. Plant Rat	RRJ Monitors

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, zoning (Park) and audible alarm activation.

Battery Back-up

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

Select from the BW family of 4-20 mA gas transmitters:

- GasPoint • GasPoint IR • CD-420
- I.S. Plant Rat • ToxiPoint • RRJ

CR-4000 Gas Detection Channels Measuring Ranges Applicable

Combustibles: 0-100% LEL
Oxygen: 0-25% v/v
H₂S: 0-20, 0-50, 0-100, 0-500 ppm
CO: 0-50, 0-100, 0-200, 0-500, 0-1000 ppm
SO₂: 0-10, 0-20, 0-50, 0-100 ppm
NH₃: 0-50, 0-100 ppm
Cl₂: 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
NO₂: 0-10.0 ppm

"INNOVATORS IN GAS DETECTION"



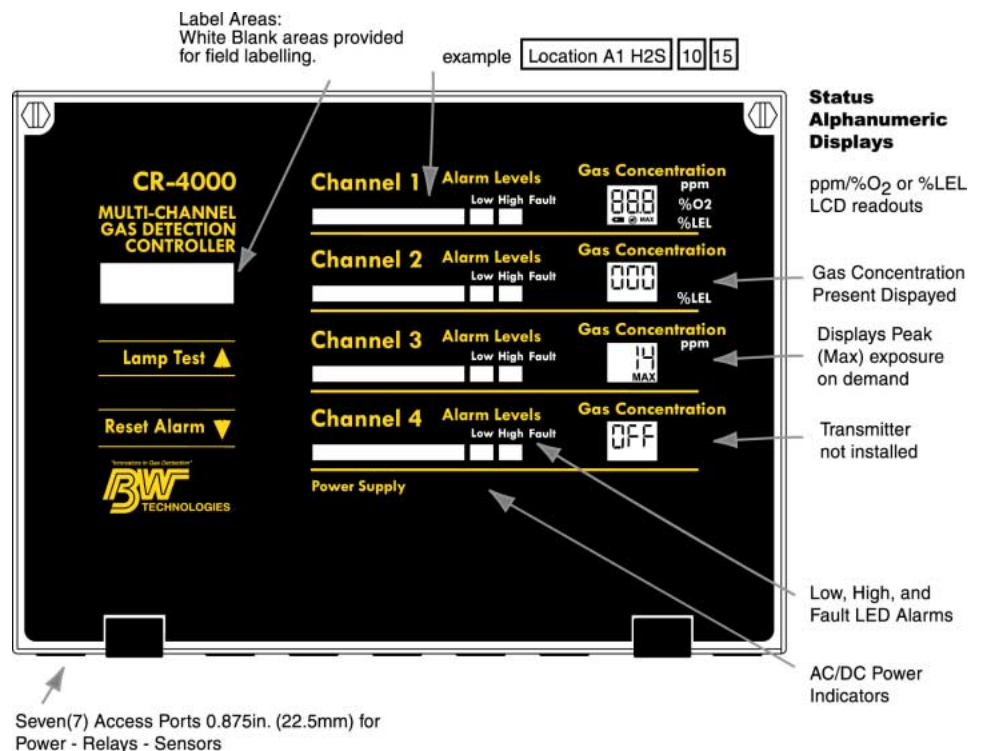
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SPECIFICATIONS

POWER:	Field selectable for AC (115 and 230 VAC) or DC (24 VDC)
AC Input:	115 VAC 50-60 Hz standard; 230 VAC 50-60 Hz
DC Input:	24 VDC (18 to 28 VDC)
Back-up:	Optional battery back-up 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	
Dimensions (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—user programmable—with simple rotary switch
Audible:	85 dB buzzer
OUTPUTS	SPDT relays; 10 amp @ 110 VAC/24 VDC, 8 amp @ 230 VAC
Alarm Relays:	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; zoning (Park) function 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 push-buttons: Alarm Reset/Acknowledge, Peak exposures, Lamp Test (audible/visual alarm test) Alarm set points: Simple Up/Down buttons
WARRANTY:	Two (2) years non-prorated

DUE TO ON-GOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

RATINGS AND CERTIFICATIONS:	cCSA _{us} Ordinary locations International Electrical Code: IEC No. 1010 U.S. Standard: ANSI/ISA S82.01 Canadian Standard Electrical Code: C22.2 No. 1010
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Nongbang Electrical and Mechanical Technology Ltd