

# RRJ-4000

## Stainless Steel

"INNOVATORS IN GAS DETECTION"

# BW

Technologies



## Four Channel Gas Detection Controller



Optional remote alarm bar available

ISO 9001

### Features and Benefits

For continuous monitoring and control of toxics, combustibles and oxygen hazards, the stainless steel RRJ-4000 is built for outdoor or indoor installation in the most rugged environments. Compatible with any 4-20 mA gas transmitter, the RRJ-4000 controller is designed for simple set-up and operation, reliable

- ▲ Easy installation, simple operation
- ▲ Rugged, stainless steel construction—truly field tough (NEMA 4X)
- ▲ AC/DC power input, solar capable
- ▲ Battery back-up included
- ▲ 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
- ▲ Individual continuous alphanumeric status LCD for each channel
- ▲ Four 10 amp SPDT common relays included. Three gas alarm relays (Low, High and High/High) and one fault relay
- ▲ Simple setup of alarm levels and measuring ranges with no tools or meters required
- ▲ Local audible alarm included
- ▲ Mix, match or change the gas monitored at any time
- ▲ The controller accepts any 4-20 mA gas transmitter

### Fixed Gas Monitoring System

#### Ordering Information

Includes two 3/4 in. (19 mm) conduit fittings and installation plus operating manual.

RRJ-4000 AC/DC 4-20 mA stainless steel controller

#### Options

RRJ-ALH05 Dual audible/visual alarm bar  
RRJ-SC010-K 10 ft. (3 m) plug-in factory sensor cables  
RRJ-SC###-K Other lengths up to 1,000 ft. (305 m)  
order in 10 ft. (3 m) increments

#### Compatible with all BW 4-20 mA gas transmitters

GasPoint CD-420  
GasPoint IR RRJ Series sensor/transmitters  
I.S. Plant Rat ToxyPoint sensor/transmitters

[www.gasmonitors.com](http://www.gasmonitors.com)

Email: [info@bwt.net](mailto:info@bwt.net)

# RRJ-4000

## Four Channel Gas Detection Controller

Each channel is equipped with three preprogrammed selection switches for easy setup or change. Select:

- △ Gas type
- △ Measuring range
- △ Alarm levels
- △ Latching gas alarm relays
- △ Audible activation
- △ Remote visual alarm activation

### Special Features

#### Records and Displays

Records peak (maximum) gas concentrations detected by each channel and displays peak concentration on demand.

#### Auto Fuses

Fuses reset automatically when the circuit power returns to normal. No fuse replacement required.

### Options

#### Dual audible/visual

alarm with remote capability

#### Solar Capable

Contact BW Technologies

#### Transportable system available

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

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

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BW1024-01-01-00-8.25x11-5248-1

### SPECIFICATIONS

#### Four channel AC/DC 4-20 mA controller

**POWER:** Field selectable for AC or DC  
AC input: 110 VAC 50-60 Hz or 230 VAC 50-60 Hz  
DC input: 16-24 VDC, minimum 3 amp output current  
Battery backup: 12 VDC supply; hours of operation dependent on transmitter current draw

#### ENVIRONMENTAL

Relative humidity: 5 to 99% non-condensing  
Operating temperature: VDC: -40 to +122°F/-40 to +50°C; VAC and battery backup: -4 to +122°F/-20 to +50°C  
Enclosure rating: NEMA 4X

#### PHYSICAL:

Stainless steel w/ carrying handles, predrilled mounting flanges, RFI/EMI protected  
Dimensions (d x w x h): 3.75 x 15.75 x 9.5 in. / 9.5 x 40.0 x 24.1 cm  
Weight: 17.8 lb/8.1 kg  
Wire terminations: Screw-type terminal blocks  
Wiring ports: Six (0.875 in./19 mm) accept conduit or compression fittings  
Channel setup switches: Three preprogrammed switches per channel. Select: gas type, measuring range, alarm levels, latching feature for gas alarm relays, audible alarm activation and activation of optional remote audible/visual alarm bar

#### AUDIBLE ALARM:

85 dB (activation field selectable on each channel)

#### ALARM RELAY OUTPUTS:

Four SPDT relays; 10 amp @ 110 VAC/24 VDC, 8 amp @ 230 VAC  
Gas alarms: Three: Low, High and High/High common, de-energized relays; gas relays are field selectable for alarm level and latching or non-latching  
Fault alarm: One normally energized and non-latching common relay

#### DISPLAY PANEL

LCDs: Four independent 3-digit alphanumeric gas concentration display and status indicators; field selectable for % LEL, ppm and/or O<sub>2</sub> % v/v  
In VAC operation  
Backlight:  
LED indicators: Gas alarms: Three: LOW (red), HIGH (red), HIGH/HIGH (red) per channel  
Fault alarm: Common amber LED  
Gas type: Combustibles (% LEL), toxic (ppm), or oxygen (% by volume)  
Power: Two "ON" AC icon (green), DC icon (green)  
Gas: Concentration icons—ppm, % LEL and other

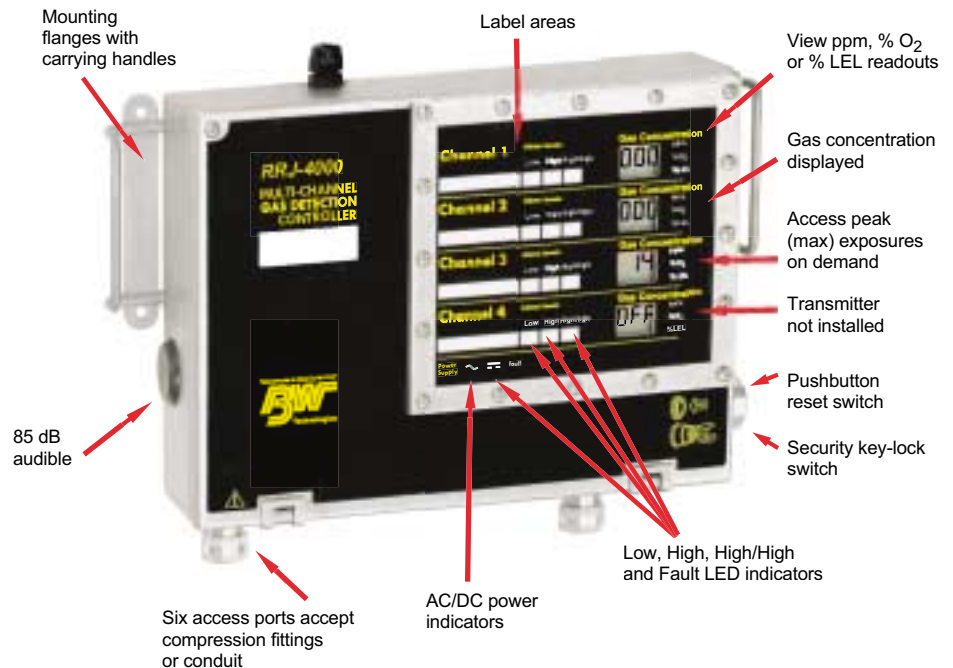
#### MULTI-FUNCTION CONTROLS:

Security key lock switch (three positions): ON/OFF; lamp test; calibration and alarm setpoints  
Pushbutton switch: Alarm acknowledge (reset); audible mute; displays peak (maximum) exposures and alarm setpoints

#### OPTIONAL REMOTE ALARM BAR:

Stainless steel enclosure with variable angle mounting predrilled flanges; mounts remotely or directly on RRJ controller  
Audible: 101 dB siren High, High/High and Fault alarm; field selectable for each channel  
Visual: 60,000 candlepower strobe (all alarm conditions); field selectable for each channel  
Physical: Size: 4.5 x 8.3 x 6.5 in./11.4 x 21.1 x 16.5 cm  
Weight: 4.0 lb/1.8 kg  
Standard cable length: 5 ft./1.5 m included, longer lengths available

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



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