

RRJ Series

H₂S or Combustible Gases

Zero-Maintenance Gas Sensors/Transmitters

"INNOVATORS IN GAS DETECTION"

BW

Technologies



An Industry First Maintenance-free 4-20 mA Gas Transmitter



ISO 9001

FEATURES:

The rugged, zero-maintenance RRJ Series Transmitters for H₂S or combustible gases come complete with sensor and provide a 4-20 mA signal that is compatible with any 4-20 mA control system (DCS, PLC, BW RRJ-4000 and CR-4000 controllers, etc.).

- △ Eliminate maintenance. No calibration required, no sensor replacement required, no downtime.
- △ Rugged, durable, polyurethane encapsulated transmitter w/ sensor
- △ Quick disconnect with mil-style plug-in wiring connector during installation and decommissioning
- △ 2 year operational life
- △ Daily, full function self-test (auto) of sensor and circuitry integrity
- △ LED red visual alarm
- △ Electrochemical sensor (H₂S) or Catalytic bead sensor (combustible gases)
- △ Wide supply voltage range—10 to 28 VDC for industry standard compatibility
- △ Low initial cost—competitively priced

4-20 mA Transmitter w/ Sensor

Ordering Information

Zero-maintenance, 2-year, 4-20 mA transmitter w/ sensor, field plug-in wiring kit and field-replaceable sensor screen

RRJ-RH04	2-wire Hydrogen Sulfide (0-100 ppm) Monitor
RRJ-RW04	3-wire Combustible (0-100% LEL) Monitor

Accessories and Options

RRJ-FIL-K5	Sensor screen replacements (kit of 5)
RRJ-SC010-K	10 ft. (3 m) plug-in factory built sensor cables
RRJ-SC###-K	Other lengths up to 1,000 ft. (305 m) in 10 ft. (3 m) increments

Compatible with all 4-20 mA Controllers and the following BW Controllers:

RRJ-4000	4 Channel AC/DC Stainless Steel Controller
CR-4000	4 Channel AC/DC Controller

www.gasmonitors.com

Email: info@bwt.net

RRJ Transmitters with Sensor

H₂S or Combustibles

BW Technologies introduces the first zero-maintenance, 4-20 mA transmitters on the market. BW Technologies has applied the cutting-edge technology developed for the world's most advanced and popular portable gas detectors, the BW GasAlertClip and Toxyclick2, to the RRJ Series of Transmitters.

Daily Automatic Self-Test

The full function self-test is a unique safety advantage. The sensor integrity is tested as well as the circuitry integrity. The full function sensor integrity test not only advises if the sensor is present, but additionally tests the sensor's response and advises if the sensor is defective.

Operational Life

The operational life is two years in normal use. The life counter is activated when power is applied and runs continuously while the monitor is operating. If power is interrupted or turned off (as in portable applications), the counter stops and will resume counting from the point where it was stopped when power is restored.

Life-Ended Warning and Alarm

One month prior to the end of the transmitter's operational life, the LED will begin a slow flash warning. When the 2 year operational life is over, the monitor will send a 2 mA signal to the controller advising that the monitor is now disabled and requires replacement.

"INNOVATORS IN GAS DETECTION"



For further information:
 1-888-749-8878 USA
 1-800-663-4164 Canada
 +44 (0) 1869 233004 Europe
 +971-4-8871766 Middle East
 +61-7-3818-8244 Australia
 +1-403-248-9226 Other Countries

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

SPECIFICATIONS

Transmitter w/ Sensor: 4-20 mA gas transmitter with advanced microprocessor-based circuitry
Supply Voltage: 10 VDC (min.) to 28 VDC (max.)
Current Draw: H₂S: 50 mA ; Combustibles: 100 mA
Power Consumption (normal): H₂S version: 4 mA @ 12 VDC; 4 mA @ 24 VDC nominal
 Combustibles version: 50 mA @ 12 VDC; 35 mA @ 24 VDC nominal
EMI/RFI: Complies with EMC Directive 89/336/EEC
TRANSMISSION RANGE: 1,000 feet / 305 m with 22 AWG / 0.64 mm cable

SENSORS:

Gases Monitored	Sensor Type	Measuring Range	Temperature Range	Cable
H ₂ S:	Electrochemical	0-100 ppm	-40 to + 122°F; -40 to + 50°C	2-wire
Combustibles:	Catalytic	0-100% LEL	-40 to + 122°F; -40 to + 50°C	3-wire

Humidity: 5 to 90% non-condensing
Calibration: Factory calibrated. Not required for operational life.

FULL FUNCTION SELF-TEST: Daily (auto) and each time power is applied (auto)
Verifies: Sensor integrity and circuitry integrity
VISUAL ALARM: Red light emitting diode (LED)

STATUS ADVISE:

Advise Signals:	LED Indicator	Current Output*
Normal Operation:	ON	4-20 mA
Over Range Alarm:	ON	21 mA
Fault: Self-Test Fail:	Fast flashes (1 per 0.5 seconds)	2 mA
Life Ending Warning:	Slow flashes (1 per 2 seconds)	4-20 mA
Operational Life Ended:	OFF	2 mA
Power OFF:	OFF	0 mA

*Current Output: Signal to control system (DDC, PLC, etc.)

ALARM OUTPUTS: Two (2) are available if required; rated 250 mA @ 24 VDC
 Two (2) factory specified alarm levels (LOW and HIGH)

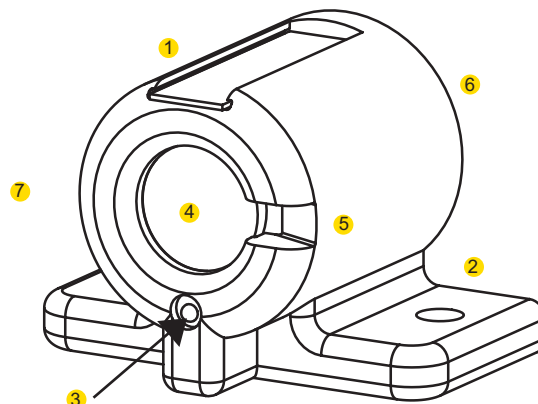
PHYSICAL: Rugged polyurethane encapsulated enclosure
 Size: 2.65 x 2.3 x 3.25 in. / 6.73 x 5.84 x 8.25 cm
 Weight: approx. 6.2 oz. / 175 g

CONNECTOR: Plug-in, mil-style, 6-pin connector
 Accepts field wiring kit (standard) or optional BW plug-in remote RRJ sensor cables

OPERATING LIFE: 2 years
Warranty: 2 years including sensors

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

RATINGS AND CERTIFICATIONS: CSA to both U.S. and Canadian Standards
 (INTRINSICALLY SAFE W/ BARRIER) Class 1, Div. 1, Gr. A, B, C, D T6
 Class 1, Zone 0, Gr. IIB



- 1 Zero-maintenance, 4-20 mA transmitter with sensor
- 2 Rugged, encapsulated enclosure with predrilled mounting flanges—only the sensor is exposed
- 3 LED alarm indicator
- 4 Sensor
- 5 Washable, replaceable 2nd sensor screen
- 6 Plug-in field wiring connector

Locally distributed by: