

Digital
Radios for
Automated
Monitor &
Control of
Equipment
and
Processes



Superior
Range

Superior
Reliability



Plug & Play
Simplicity



RADIO

- 900 MHz, Frequency-Hopping, Spread-Spectrum, Digital Radio...
- Proprietary Communications Protocol...
- Unique Transmitter I.D. Codes...
- and Diversity Reception...

...All Combine to Create a Robust, Reliable, Virtually Interference Immune Wireless Control System

- with No FCC License Required

OPERATIONAL

- Superior Range: 2+ miles (Standard System), 5+ miles (Enhanced System)
- Fully Supervised Operation Including Dedicated Fault Alarm Relay Output
- Long-Life, Lithium Battery Powered Transmitters Ideal for Off-Grid Applications
- 12 VDC-Powered Transmitter Options Available
- Low Power Consumption Ideal for Solar Power

PHYSICAL

- Integrated, Internal Antennas – No Separate Installation Required
- Lightweight and Compact - Easily Retrofit Existing Systems with Wireless
- Quick, Easy Installation

OPTIONS

- SmartRepeater™ Available for Sites with Major Obstacles or Extreme Range
- Compact, Handheld Transmitters Create Push-Button Remote Control for Any Equipment or Process

800i SERIES SPECIFICATIONS

Radio: 902 - 928 MHz; frequency hopping, spread spectrum.

Power Requirements: Transmitter (fixed, line powered): 11 - 14 Vdc; 40 mA (Standard) or 110 mA (Enhanced). Transmitter (fixed, battery powered): 3 V, 2/3A lithium battery (Panasonic CR123A, Duracell 123A, or equivalent); 3 - 5 yr typical battery life (Standard) or 1 - 2 yr typical battery life (Enhanced). Transmitter (handheld): 3 V lithium battery (Panasonic CR2 or equivalent); 3 - 5 yr typical battery life. Receiver: 11 - 14 Vdc; 150 mA typical, 400 mA maximum. Repeater: 12 - 16.5 Vdc or Vac; 100 mA.

Transmitter Input: Fixed: dry contacts (NO or NC). Handheld: push-button.

Typical Range (line of sight): 2+ mi. (Standard), 5+ mi. (Enhanced), or 2,000 ft. (Handheld). Site environmental conditions unique to each installation including temperature, mounting height, obstructing terrain, foliage, or structures, and local 900 MHz noise may affect achievable range.

Receiver Outputs: SPDT (Form C) relay(s) (1 A @ 28 Vdc). Fault: 1. Actuation: 1 (RD800), 4 (RD801), or 5 (RD802).

Maximum Transmitters per Receiver: 1 (RD800), 4 (RD801), or 16 (RD802).

Enclosure: NEMA 1 molded plastic.

Operating Environment: 90% relative humidity, non-condensing. Transmitter (fixed) and Repeater: -4°F to 140°F (-20°C to 60°C). Transmitter (handheld) and Receiver: 32°F to 140°F (0°C to 60°C).

Weight: Transmitter (fixed/handheld): 2 oz (57 g). Receiver: 10 oz (280 g). Repeater: 7 oz (204 g).

Dimensions: Transmitter (fixed): 3.5" x 1.7" x 0.9" (89mm x 43mm x 23mm). Transmitter (handheld): 3.0" x 1.6" x 1.0" (77 mm x 41 mm x 26 mm). Receiver and Repeater: 6.4" x 3.6" x 1.1" (162mm x 91mm x 28mm).

Order from: **C A Briggs Company**; 622 Mary Street; Suite 101 - Warminster, PA 18974

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