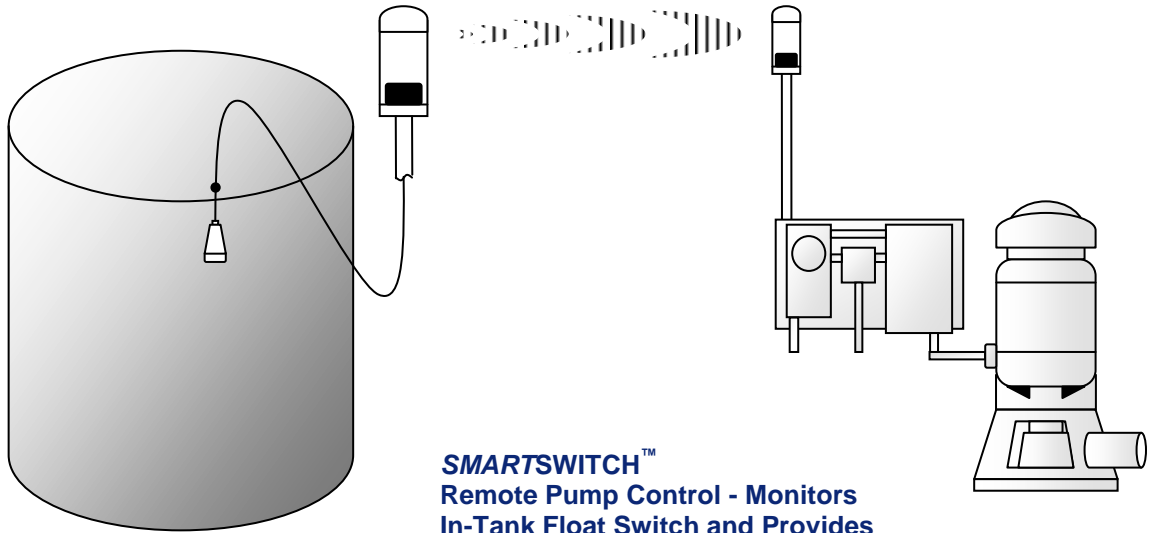


Quick, Easy Installation

Enhanced 5+ Mile Range



Extend the Range of any Isaacs System with our SmartRepeater™



SMARTSWITCH™
Remote Pump Control - Monitors In-Tank Float Switch and Provides Automatic Remote Control of Pump

PLUG & PLAY SIMPLICITY

The Isaacs *SmartSwitch™* transmitter monitors the float switch in the tank. When the water level falls and the switch closes, the transmitter sends a *turn-on* signal to the receiver at the pump. When the water level rises and the switch opens again, the transmitter sends the *turn-off* signal.

No power is needed at the tank; the transmitter is battery powered with a long-life (up to 5 years) lithium battery. The transmitter also monitors its battery condition and notifies the receiver when a battery change is required.

At the pump site, the *turn-on* signal from the transmitter causes the receiver to energize the pump auto circuit. The *turn-off* signal from the transmitter de-energizes the circuit to stop the pump.

ISAACS SPREAD SPECTRUM RELIABILITY

Isaacs *SmartSwitch™* systems utilize 900MHz, frequency hopping, spread spectrum digital radio technology to reliably transmit switch openings and closures from remote locations.

The Isaacs spread spectrum transmitter sends each actuation signal multiple times across a range of frequencies. With data encoded in our proprietary communications protocol and unique digital addressing, Isaacs radios are virtually interference immune.

TYPICAL SYSTEM COMPONENTS

| | | |
|------|---------|---|
| 1 ea | TD810 | 810 <i>SmartSwitch™</i> Std Transmitter |
| 1 ea | KR800 | 810 <i>SmartSwitch™</i> Receiver Pkg |
| 1 ea | TS0655S | Wide Angle Mech Float Switch |
| 1 ea | TS0100 | 480/240 to 120 VAC Transformer |

NO FCC LICENSE REQUIRED

Optimum radio performance (2+ mile range with standard system) requires line of sight between transmitter and receiver with respect to ground or foliage. Our enhanced transmitter, the TD811, and the Isaacs *SmartRepeater™* are available for sites with major obstacles or extreme range.

NO CONTROL WIRE NEEDED

Avoid the time, effort, and expense of running control cable between the tank and pump. *SmartSwitch™* components are conveniently packaged in weatherproof enclosures with integrated internal antennas for quick, easy installation.

CONTACT US:

Order from:

C A Briggs Company

622 Mary Street; Suite 101
 Warminster, PA 18974

Phone: 267-673-8117 - 800-352-6265

Fax: 267-673-8118

Sales@cabriggs.com - www.cabriggs.com

Digital
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Automated
Monitor &
Control of
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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, Conduit-Ready, Weatherproof Enclosure
- 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

800 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 (RD810), 4 (RD811), or 5 (RD812).

Maximum Transmitters per Receiver: 1 (RD810), 4 (RD811), or 16 (RD812).

Enclosure: Transmitter (fixed) and Receiver: PPG Delfleet® Evolution coated PVC with integrated 1" FNPT fitting. Transmitter (handheld): NEMA 1 molded plastic. Repeater: All-weather 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): 2.2 lb (1.0 kg). Transmitter (handheld): 2 oz (57 g). Receiver: 2.9 lb (1.4 kg). Repeater: 1.7 lb (770 g).

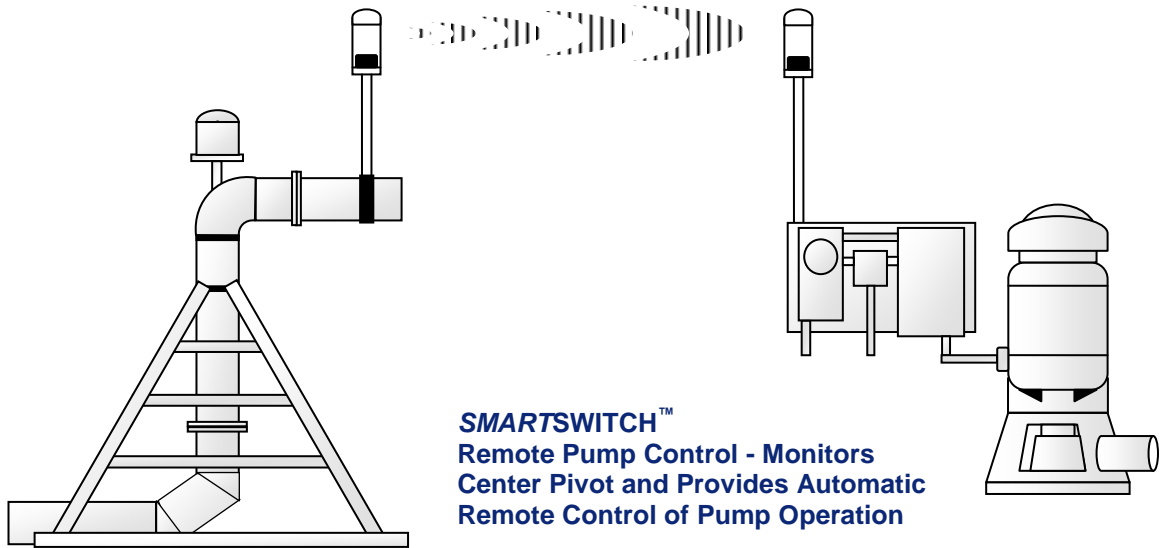
Dimensions: Transmitter (fixed) and Receiver: 4.9" diam x 11" (125 mm x 280 mm). Transmitter (handheld): 3.0" x 1.6" x 1.0" (77 mm x 41 mm x 26 mm). Repeater: 7" x 7" x 3" (178 mm x 178 mm x 77 mm).

Quick, Easy Installation

Enhanced 5+ Mile Range



Extend the Range of any Isaacs System with our SmartRepeater™



PLUG & PLAY SIMPLICITY

The Isaacs *SmartSwitch™* transmitter monitors the center pivot's wet circuit (for full remote control) or safety circuit. When the center pivot is turned on, the transmitter sends a *turn-on* signal to the receiver at the pump. When the pivot is turned off or *safety's off*, the transmitter sends the *turn-off* signal.

No power is needed from the center pivot; the transmitter is battery powered with a long-life (up to 5 years) lithium battery. The transmitter also monitors its battery condition and notifies the receiver when a battery change is required.

At the pump site, the *turn-on* signal from the transmitter causes the receiver to energize the pump auto circuit. The *turn-off* signal from the transmitter de-energizes the circuit to stop the pump.

ISAACS SPREAD SPECTRUM RELIABILITY

Isaacs *SmartSwitch™* systems utilize 900MHz, frequency hopping, spread spectrum digital radio technology to reliably transmit switch openings and closures from remote locations.

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TYPICAL SYSTEM COMPONENTS

| | | |
|------|---------|---|
| 1 ea | TD810 | 810 <i>SmartSwitch™</i> Std Transmitter |
| 1 ea | KR800 | 810 <i>SmartSwitch™</i> Receiver Pkg |
| 1 ea | TS0642 | Tx Interface Relay (DPDT) |
| 1 ea | TS05401 | Tx Span Pipe Mounting Bracket |
| 1 ea | TS0100 | 480/240 to 120 VAC Transformer |

NO FCC LICENSE REQUIRED

Optimum radio performance (2+ mile range with standard system) requires line of sight between transmitter and receiver with respect to ground or foliage. Our enhanced transmitter, the TD811, and the Isaacs *SmartRepeater™* are available for sites with major obstacles or extreme range.

NO CONTROL WIRE NEEDED

Avoid the time, effort and expense of running control cable between the pivot and pump. *SmartSwitch™* components are conveniently packaged in weatherproof enclosures with integrated internal antennas for quick, easy installation.

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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 (RD810), 4 (RD811), or 5 (RD812).

Maximum Transmitters per Receiver: 1 (RD810), 4 (RD811), or 16 (RD812).

Enclosure: Transmitter (fixed) and Receiver: PPG Delfleet® Evolution coated PVC with integrated 1" FNPT fitting. Transmitter (handheld): NEMA 1 molded plastic. Repeater: All-weather 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): 2.2 lb (1.0 kg). Transmitter (handheld): 2 oz (57 g). Receiver: 2.9 lb (1.4 kg). Repeater: 1.7 lb (770 g).

Dimensions: Transmitter (fixed) and Receiver: 4.9" diam x 11" (125 mm x 280 mm). Transmitter (handheld): 3.0" x 1.6" x 1.0" (77 mm x 41 mm x 26 mm). Repeater: 7" x 7" x 3" (178 mm x 178 mm x 77 mm).

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PHYSICAL

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

OPTIONS

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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).