

603T SmartSwitch™ Transmitter (High Power)

FEATURES:

900 MHz Spread Spectrum Digital Reliability

Wavelength 70% shorter than 300 MHz provides greater site flexibility.

Data Encoding and Proprietary Protocol

Quick and Easy Installation

No FCC License Required

Compatibility: Compatible with Isaacs 600 Series, 1200 Series, and 737R receivers.

Power Supply: 3V lithium battery (Duracell DL123A or Panasonic CR123A). 1 – 2 year expected battery life.

Input: Dry contact; normally open or normally closed; normally open only with 601R receiver. 1.5 second minimum required state change duration. If contact change occurs during the ~ 2.5 second duration transmission routine of a previous state change, then minimum required state change duration increases to 4 seconds.

Transmission Delay: 0 – 1.5 seconds. If contact change occurs during the ~ 2.5 second duration transmission routine of a previous state change, then transmission delay ranges from 1.5 to 4 seconds.

Operation: Transmitter monitors one dry contact and transmits the state of the contact to actuate one or more relay output(s) and visual display at its mated Isaacs receiver(s). Except with 601R or 1251R receivers, transmitter can monitor dual parallel contacts: when normally open primary contact is open, normally closed secondary contact with series resistor can be used to actuate receiver relay or display; when primary contact is closed, secondary contact cannot be detected by transmitter. Periodic transmissions report status of primary and secondary contacts as well as battery voltage. Upon detection of low battery voltage, transmitter will operate for approximately 10 days without battery replacement before preemptive deactivation.

Expected Range: 5 miles, line-of-sight; omni-directional transmission. Operating range is dependent on site environmental factors unique to each installation such as ambient temperature, mounting height and its relation to obstructing terrain, foliage, or structures, and local 900 MHz noise level.

Operating Conditions: 0 – 95% relative humidity, non-condensing. 32°F to 122°F (0°C to 50°C).

In undocumented cold chamber testing of signal strength, there was no measurable degradation down to -20°C. Between -20°C and -30°C some degradation in measured signal strength was observed. Between -30°C and -40°C instances of operational failure due to non-fatal hardware failure were observed. By -40°C complete operational failure due to non-fatal hardware failure was observed. Normal operation resumed upon increase in temperature.



Programmability: Dual parallel contact monitoring capability except with 601R or 1251R receivers. Available periodic status transmission intervals range from 10 seconds to 18 hours, or disabled.

Radio: Narrow band, frequency hopping spread spectrum.

Frequency Range: 902 – 928 MHz.

*This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.*

Enclosure: DuPont® Imron® coated polyvinylchloride with 1 inch FNPT conduit fitting.

Dimensions (enclosure): 4.9 (diameter) x 11.0 inches (12.3 x 27.9 cm).

Weight: 2.2 lb (1.0 kg).



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