

325 SmartRepeater™

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, 700, and 1200 Series transmitters and receivers.

Power Requirement: 14 VAC. 1 external power supply (120 VAC – 14 VAC, 220 mA) provided.

Power Consumption: 70 mA typical.

Operation: Repeater receives and re-transmits signals from Isaacs transmitters. In addition to re-transmitting received signals, repeater can send its own periodic status transmissions reporting input voltage.

Expected Range: 4 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 140°F (0°C to 60°C).

In cold chamber transmission testing, there was no measurable change in signal strength 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: 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: NEMA 1 rated molded plastic.

Dimensions (enclosure): 3.6 x 1.1 x 6.4 inches (9.2 x 2.8 x 16.3 cm).

Weight: 7 oz (198 g).



3380 Isaacs Avenue
Walla Walla, WA 99362-8017
Tel: 509.529.2286
Fax: 509.529.2291
Email: isaacs@isaacstech.com
Web: www.isaacstech.com