



REDRAVEN™

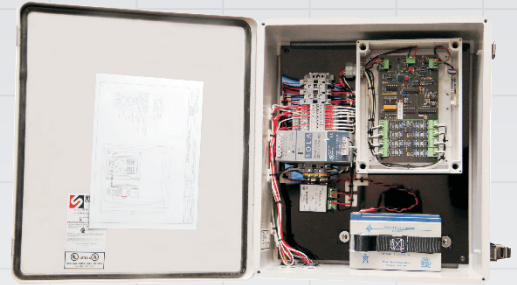
SMART RTU WIRELESS TRANSMITTER

The Smart RTU wireless transmitter is a unit designed to monitor multiple analog or digital sensor inputs and wirelessly transmit the data to a receiver.

The S-EGI-NB-4/20 model also supplies the 24 VDC loop power if required by the customer's installed field instruments.

The Smart RTU transmitter is either powered by a solar panel (max 2 channels RTU) or AC/DC power and includes a built-in automatic battery back-up system. It can monitor from 2 to 56 different channels (dependent on accessories ordered) of analog or digital sensor inputs. The exact type of sensors monitored on each channel is dependent on the individual unit configuration.

Each unit also has a single diagnostics port (inside the enclosure) for programming and troubleshooting the unit as



*Model S-EGI-NB-4/20-X**

well as logging data with the optional VB-103-TAM accessory (where collected data is stored).

The Smart RTU transmitter has a built-in, omni-directional wireless antenna, allowing for reliable signal transmission. Data transmittal can occur at a customizable time interval, ranging from every five seconds to once a day (this time interval is usually pre-configured at the factory). Transmission rates can also be varied according to sensor signal values, thereby prolonging battery life. The approximate transmitting range is 1.2 km (0.75 miles). For greater distances, Flowserve Smart Repeaters expand the range to more than 11 km (7 miles). The Flowserve Wireless integrated data connectivity system is ideal for collection and transmission of data.

*X denotes different configurations.



REDRAVEN™ Smart RTU

Smart RTU unit specifications

Operating frequency	900 or 868 MHz
Channels	2, 4, 8, 16, 24, 56
Transmission rates	5 seconds or higher
Operating range	1.2 km (0.75 miles)
Operating temperature	-20°C to 40°C (-4°F to 104°F)
Channel output power	16 or 24 VDC
Channel output time	Programmable
Humidity	0 to 95% noncondensing
Inputs	4-20 mA, discrete, 0 to 1 VDC by channel
BNC outputs	One per channel
Power requirement	12 or 24 VDC, 110 VAC or 220 VAC
Enclosure	Fiberglass NEMA 4x (size dependent on accessories ordered)
Weight (solar power)	7.06 kg (15.50 lb) [Battery or accessories not included]
Weight (AC power)	6.80 kg (15 lb) [Battery or accessories not included]

Optional add-on sensor specifications

RTD	1,000 or 100 Ohm (Platinum, two-wire)
Thermocouple	Type: J, K (+ cold reference and polynomial)
Pressure	Vacuum to 10 kpsi
Vibration	0 to 10 G peak (0 to 25 mm/sec) [0 to 1 in/s]
Discrete	Dry contact only

Developed to interface with most 4-20 mA or discrete signals.

Certifications

Flowserve

TX, USA Model: S-EGI-NB-4/20 RTU



Ex nA IIC T6

CI I, Div 2, Grp A,B,C,D; CI II, Div2, Grp E,F,G, T6

CI I, Zone 2, A/Ex nA IIC T6 Type 4X

-20iC ≤ Ta ≤ +40iC

Electrical Ratings: 115/230 Vac, 1.3/0.7A, 50-60 Hz

CAUTIONS: OPEN CIRCUIT BEFORE REMOVING COVER.

KEEP COVER TIGHT WHILE CIRCUITS ARE LIVE.

WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.

DO NOT DISCONNECT BATTERY OR EQUIPMENT UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS.

USE ONLY POWER SONIC BATTERY PART NUMBER PS -1270 OR PS-12180.