Summary

- Wireless Pulse Accumulator
- Excellent Sensitivity / Range
- 15-20 Year Stand-Alone (Internal Battery) Operation
- Wide Operating Temperature Range (-20 to +55C)
- GPS Synchronized Time Tagging of Data
- Threshold and Alarming Functions
- Internal Diversity Antennae

Description

The SC6302 Pulse Accumulator is based on the successful SC6305 product. It is a cost reduced model with mounting plate option that supports a variety of 'bolt on' applications for existing installations.

The SC6302 is primarily targeted for use in AMI applications. It's very well suited to installations requiring exceptional sensitivity and long battery life.

The embedded battery and wireless modem provide users with a stand-alone device that greatly simplifies installation and helps minimize infrastructure costs in large scale deployments. Under typical AMI conditions, the device can be expected to operate maintenance free and achieve a battery life of (15-20) years.

Canary products incorporate an RPMA wireless modem, compatible with Ingenu's RPMA Private and Public Networks. RPMA is a groundbreaking wireless technology built from the ground up, specifically targeting sensors and other low data rate devices. RPMA is an IoT solution that provides an optimal mix of coverage, capacity, low-power consumption, and cost. It fills a significant gap in between currently available short range mesh radios and cellular M2M modems.

The wireless link is a half-duplex system that operates in a star configuration. It is deployed using industry standard and time-tested modeling tools, similar to those used in the mobile telephony industry. The system delivers the lowest cost of ownership in the industry and is simple to deploy, operate, and maintain.

Typical Applications

- Bolt On Device for New and Existing Meters
- Gas and Water Management

Features

Pulse Input:

- Form A or Form B Contacts

Suitable for Indoor or Outdoor Deployment

- Polycarbonate Enclosure NEMA 4X Rated (IP66)
- -20C to +55C Operating Temp
- 15-20 Year Battery Life

Low Deployment and Maintenance Costs

Wireless Connectivity

- RPMA Network
- Over 160dB of Link Budget
- GPS Synchronization and Time Stamping

Alarming

- Configurable alarm conditions
- High, low, and outside threshold alarm conditions

Other Features

- Configurable monitoring / sampling intervals
- Configurable data logging for redundancy
- Easy to Install, Configure and Use

Specifications

Radio Performance
Sensitivity: -143 dBm
Transmit Power: +20 dBm (NA), +10 dBm (EU)
Data Throughput: 60kbps
Access Point Capacity: 64,000 Nodes
Security: 128/256 bit encryption
Protocol: RPMA Network in 2.4 GHz ISM Band
Modulation: 1MHz Bandwidth, Dynamic DSSS
Diversity Support: Yes
Frequency: 2402 to 2476 MHz (NA), 2402 to 2481 MHz (EU)

Pulse Input
Maximum Input Voltage (No Damage): +24.0VDC
Maximum Input Operating Voltage: +6.0VDC
V_{IN_HI}: ≥ +2.6VDC
V_{IN_LO}: ≤ +0.4VDC
Rin: >100kOhm

Interface
Status LED (powered, link, error)
Cabling access is provided through a cable gland.

Dimensions and Weight
Size: 94 x 74 x 49mm
Weight: 400g (including battery)

Power Requirements
Battery Powered (SignalCraft Part# SCT-BMB652VC)

Environmental
IP66 per IEC 529
Operating Temperature: -20 to +55˚C
Storage Temperature: -40 to +85˚C
Humidity: 5% to 85%, non-condensing

Conforms to:
IEC 60068-1-1 (Low Temp)
IEC 60068-2-2 (High Temp)
IEC 60068-2-14 (Rapid Temp Variation)
IEC 60068-2-6 (Vibration Endurance)
IEC60068-2-27 (Mechanical Shock)
IEC 60068-2-30 (Damp Heat)
MIL-STD 810G (Random Vibration)
MIL-STD 810G (Transit Drop)

Customization
Customized variants are possible on large orders.
Contact us to discuss your requirements.

Support
Technical support is available through our website, www.signalcraft.com/support or by contacting us at support@signalcraft.com .

Calibration
Calibration is not required on this product.

Warranty
Full one year parts and labor when used under normal installation and operation conditions. Repair services are available for products no longer covered under warranty.

Ordering Information
Send inquiries to info@signalcraft.com .