Industrial SN410

CRAFTED WITH FLEXIBILITY IN MIND

R9 Technology's Industrial Sensor Node, SN410, is a wireless IoT endpoint encased in an IP65 rated enclosure. The SN410 was designed specifically for low cost industrial data collection and control applications. The SN410 works seamlessly with R9's G200 cellular gateway.

Network Interfaces

R9's SN410 was designed with deployment flexibility in mind. The Sub 1 GHz wireless interface provides exceptional range even in the harshest environments. An optional 2.4 GHz Bluetooth Low Energy interface provides local configuration and diagnostic capability.

Industrial Interface support

Each of the four sensor interfaces support several industrial standards including: 1-wire, 0-10V and 4-20mA. Additionally, all four ports use circular M8 connectors which support the SN410's IP65 rating.

Onboard Sensor Power

The SN410 can provide 5 - 12V (150mA) per attached sensor. This makes the SN410 ideal for remote sensing applications where power is not readily available.

Simplified Network Deployment

The auto discovery feature of the SN410 makes network configuration a snap. Simply enter the SN410's unique ID in the customer portal and let the system do the rest.
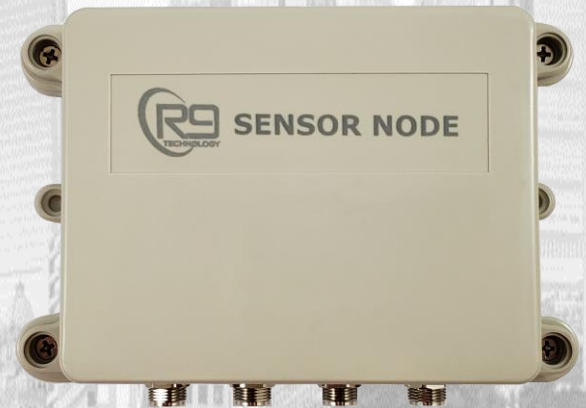
Extended Battery Life

Powered by two standard "C" cell batteries, the SN410 is designed to operate hands off for years.

Technical Feature List:

- Wireless 915 MHz / 868 MHz ISM band connectivity for sensor data transfer.
- SDR (software defined radio) chip-set allows for support of multiple communications standards.
- AES128 encryption providing secure sensor node communication.
- Provides four circular M8 industrial connectors supporting the following electrical interfaces.
    - 1-wire
    - 0–10V
    - 4-20mA
- Single channel: -20°C to 45°C local ambient temperature measurement (limited by batteries in device).
- Integrated sensor power supply. Provides 5 -12V (150mA) per attached sensor. Includes smart power gating feature.
- Reset button (internal to enclosure).
- Pairing button (internal to enclosure)
- IP65 ABS plastic enclosure (100 mm height x 157 mm width x 52 mm thickness).
    - Integrated magnet system for attachment to metal surfaces.
    - Two mounting flanges for use with screw-mount applications.
- LED indicator (red/green) for temperature alarm status.
- Built-in system power timer for lowest possible power draw, and longest possible battery life.
- Internal battery or external power supply operation.
- 2x C cell alkaline battery powered.
- DC jack for external power input (0.65 mm, 3.0V).
- Optional external antenna port.

ABOUT R9 TECHNOLOGY

R9 Technology provides the necessary hardware, embedded software, and cloud infrastructure to enable quick and easy deployment of IoT products. We focus on cost effective, small form factor, and low power solutions. R9 Technology can customize any of our products to fit your specific needs. Our experienced team members have expertise in the telecom space, cellular wireless technologies, and wireless local area network technologies such as Bluetooth, BLE (Smart), WiFi, Zigbee and others.

CONTACT US

R9 TECHNOLOGY
17217 Waterview Parkway
Suite 1.202Y Dallas, TX, 75252, USA

(972) 729-9990 Office
(214) 282-3347 Sales
www.r9technology.com

requests@r9tech.com
jtauch@r9tech.com