SensiNext
SENSORS & WIRELESS

SM-420

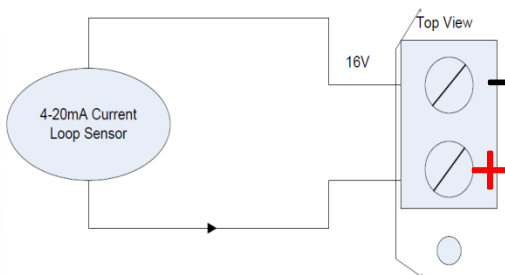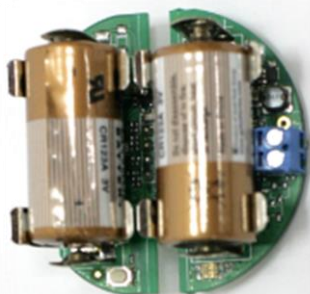## SmartNext ™ 420 Transmitter

Main Features

- Compatible with any standard 4-20mA (passive) sensor
- Configurable transmission intervals
- Configurable stabilization time
- Frequency hopping: Military grade, radio technology
- Long battery life : Typical 3 years (for 1 minute sampling)
- Transmission range:
    - Open air (LoS): Up to 1000 m` (3000 ft)
    - In door: Up to 100 m` (300 ft)
- Remote configuration
- WL signal level and battery power indication

Product Description

SmartNext™ is an industrial wireless sensors connectivity system that offers seamless connectivity of any standard sensor, using RF transducers and dedicated control panel. The SmartNext ™ features an un-matched radio quality and robustness, specially designed to meet industry, harsh environment, requirements

The SM-420 is SmartNext's™ 4-20 mA transducer that powers the 4-20mA sensor. The SM-420 features true plug & play installation and easy configuration, either locally, using the control panel's build-in keyboard , or remotely via standard ModBus communication

The SM-420 offers various housing options and connectivity to any 3rd party 4-20 mA standard sensors, that powered by the transmitter (i.e most humidity, temperature, etc. sensors)

SmartNext™ Family

Target Markets:

Food & Beverage

Pharmaceuticals

Industrial Furnaces

Water & waste-water

Laboratories

Applications:

Data logging

Temp & humidity

Pressure & level

Voltage: 0-2V, 0-5V

Standard 4-20mA

PT-100

Dry contact / Dig-in

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Product Data Sheet

Sensors & Inputs

Supported inputs	1 X 4-20mA
Connectivity options	Built-in, or externally connected, including 3rd party

Power Supply

Power consumption	100 mW
power source	2 X 3V (CR123A) Lithium battery
Battery life	1 year for transmission every 1 minute

Accuracy

Measurement accuracy	$\pm$ 0.1%

Wireless

Frequency	433/868/915 MHz
No. of supported sensors	1
WL output power	Up to 20 dBm (Automatically adjusted)
Network topology	Star
Receiver sensitivity	-105 dBM
Modulation	GFSK Spread spectrum
Frequency hopping	Yes

Range

Out-door (LoS)	Up to 1000m / 3000 Ft'
In-door	Typically 100m / 300 Ft'

Configuration

Local config	Yes, via control panel's on-board keyboard
Remote config	Yes

Enviromental

Operating temp	-30°C / -22°F to +70°C / +158°F
Case enclosure type	IP67 (inside dedicated enclosure)
Dimensions	$\varnothing$ 65 mm X (H) 60 mm
FCC	Yes