NB-IoT Analog Sensor

PS-NB-NA

OVERVIEW:

The Dragino PS-NB-NA is a NB-IoT Analog Sensor for Internet of Things solution. PS-NB-NA has 5v and 12v output, 4~20mA, 0~30v input interface to power and get value from Analog Sensor. PS-NB-NA will convert the Analog Value to NB-IoT wireless data and send to IoT platform via NB-IoT network.

PS-NB-NA supports different uplink methods including MQTT, MQTTs, UDP & TCP for different application requirement, and support uplinks to various IoT Servers.

PS-NB-NA supports BLE configure and OTA update which make user easy to use.

PS-NB-NA is powered by 8500mAh Li-SOCI2 battery, it is designed for long-term use up to severa years.

PS-NB-NA has optional built-in SIM card and default IoT server connection version. Which makes it works with simple configuration.

Features:

- NB-IoT Sensor Node,B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B28/B66/B70/B85 @H-FDD
- Ultra-low power consumption
- 1 x 0~20mA input , 1 x 0~30v input
- 5v and 12v output to power external sensor
- Multiply Sampling and one uplink
- 8500mAh Battery for long term use
- Support BLE remote configure and update firmware
- Uplink on periodically
- IP66 Waterproof Enclosure
- AT Commands to change parameters
- Uplink via MQTT, MQTTs, TCP, or UDP

Order Info:

Part Number: PS-NB-NA-XX-YY

XX:
- **GE**: General version (Exclude SIM card)
- **1D**: with 1NCE* 10 years 500MB SIM card and Pre-configure to DataCake server

YY: The grand connector hole size
- M12: M12 hole
- M16: M16 hole
- M20: M20 hole

Specification:

Common DC Characteristics:
- Supply Voltage: 2.5v ~ 3.6v
- Operating Temperature: -40 ~ 85°C

NB-IoT Bands :
- B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B28/B66/B70/B85 @H-FDD

Current Input(DC) Measuring :
- Range: 0 ~ 20mA
- Accuracy: 0.02mA
- Resolution: 0.001mA

Voltage Input Measuring:
- Range: 0 ~ 30v
- Accuracy: 0.02v
- Resolution: 0.001v

Battery:
- Li/SOCI2 un-chargeable battery
- Capacity: 8500mAh
- Self-Discharge: <1% / Year @ 25°C
- Max continuously current: 130mA
- Max boost current: 2A, 1 second

Applications:

- Smart Agriculture
- Smart Cities
- Smart Buildings & Home Automation
- Logistics and Supply Chain Management

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