Micro Edge 4 Specifications (Hardware V1.1)

Overview

- 1 x Pulse input
- 3 x Universal inputs - 0-10V DC, 4-20ma, 10/20K Resistor
- Battery 3 x AA or 24V AC/DC power supply
- LoRa Wireless technology
- IP65 Waterproof Enclosure

Application use

The Edge Micro has been specifically designed for low cost monitoring and collecting of data from machine and asset usage.

- 1x pulse input for and accumulation of the pulse count for a water or electrical meter
- 3 x universal inputs for use for CT and or sensor monitoring
- Power monitoring with 3 x universal inputs for external CTs
- Battery powered LoRa technology

Micro Edge 4 Specifications (Hardware V1.1)

- Max Pulse Count - 2,147,483,647
- Battery Life - ~3-5 years (3 at 1 minute push intervals, 5 at 24 hour push intervals)*
- Transmit Frequency: 915mhz
- Number of Inputs: 4
- Input types: Thermistor, PIR, 0-10V, Pulse Meter, Reed Switch... etc
- Batteries: 3xAA
- Storage Writes: - 1,000,000,000,000
- Data Retention: 10 years (+ 85 °C), 95 years (+ 55 °C), over 200 years (+ 35 °C)
- Push Intervals (User Configurable): 1 Minute, 5 Minutes, 15 Minutes, 30 Minutes, 1 Hour, 3 Hours, 10 Hours, 12 Hours, 24 Hours
- Enclosure: IP65 Waterproof Enclosure
- VCC: 2.3v ~ 5v
- Operating Temperature: -40 ~ 85°C

Power Options and Requirements:	
Via Terminal	Power Supply: 24VAC +/- 3% or 24VDC +10%/-10% Consumption 100 mA or Batteries: 3xAA

Connectivity:	
LoRa	Transmit Frequency: 915mhz

Batteries:	
Batteries	3 x AA

Available IO	
Universal Inputs	3
Digital Inputs (Pulse)	1

Dimensions

Length	115mm
Width	65mm
Height	40mm
Material Type	ABS Plastic (Acrylonitrile Butadiene Styrene)
UL Rating	UL94-V0
IP Rating	IP65
Operating temperature:	-20 to 80 degrees
Mounting	Screw mount

Input/Output Details

Name	Tolerance	Usage
Digital Inputs	Dry Contact	Detecting the closing or opening of circuit
Universal Input	0-10V DC, 4-20ma, 10/20K Resistor	Measuring 0-10V Sensors, Voltage, Temperature

Computing and Programming

Physical Specs		Speed Max: 20 MIPS at 20 MHz Memory: 32KB Flash Storage: 1024B EEPROM
Programming		C++

About Nube iO

Designed by HVAC controls experts, Nube iO provides a reliable and economical platform to control and monitor your HVAC system. With emphasis on utilizing open platforms and device security Nube iO allows you to break free from restrictive BMS platforms without the huge cost of having to replace existing controllers.

Born in the age of IoT, Nube iO provides you with the ability to access your data from the web. No longer do you need hundreds of sensors or a huge budget in order to get your data online. Whether you have one sensor or thousands, the scalability of the platform makes it economical regardless of the size of your system.

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