NUBE iO

Nube iO Micro Edge Data and Specifications

Wireless LoRa Input and Pulse Device

The MicroEdge is Nube-iO's multi-purpose wireless (LoRa) IoT asset monitoring sensor. Designed to interface with low level sensors, pulse sensors (water, electrical, gas, etc.), in a small package, with minimum install time.

LoRa wireless IoT technology provides a very long transmission range that is energy efficient and less susceptible to object interference than other wireless technologies.

The MicroEdge provides 3 analog Inputs, and 1 Digital Pulse Accumulation Input. Values are sent wirelessly to the gateway controller, making installation hassle free.

Powered by a 4000mAh battery, the MicroEdge sensor has a runtime of 8 - 10 years depending on the configured push rate.
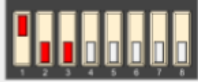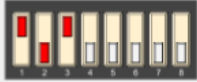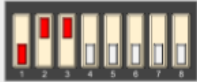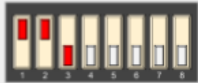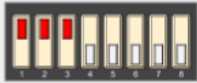
Technical Data

General	
Dimensions	115mm x 65mm x 40mm or 4.53in x 2.56in x 1.58in
Power Supply	**Battery:** 8-10 years runtime depending on configured push rate
Push Rate	**Adjustable:** 30sec, 1min, 3min, 5min, 15min, 30min, 1h
IP / UL Rating	IP65 / UL94-V0 Waterproof Enclosure
Operating Temperature	-20°C to 80°C
Material Type	ABS Plastic (Acrylonitrile Butadiene Styrene)
Low Level Inputs	**3 x Analog Input:** 10k Thermistor, Digital / Dry Contact **1 x Digital Input:** Digital Pulse (Dry Contact or 3.3v max) Accumulation
Wireless Communications (LoRa)	
Transmit Frequency	915 MHz
Spreading Factor	7
Bandwidth	250 kHz

Ordering Information

Device Models	
	ME - LR - _ - 0 Product Family —┘ │ └─ Outputs **ME** - MicroEdge **0** - 0 Inputs Communication —┘ └─ Inputs **LR** - LoRa Raw **4** - 4 Inputs
ME-LR-5	LoRa RAW wall mount sensor. Temperature, Humidity.

Configuration

DIP Switch Settings		
DIP Switches 1-3 Data Interval/Push Rate	**Push Rate** / DIP Switch Configuration (RED Switches Only): 15 Minutes, 30 Seconds, 1 Minute, 3 Minutes	**Push Rate** / DIP Switch Configuration (RED Switches Only): 5 Minutes, 10 Minutes, 30 Minutes, 1 Hour
DIP Switch 6 Reset Pulse Count	To reset the Pulse Count: Set DIP 4 ON/1; Push the Reset Button; Wait 5 seconds; Set DIP 4 OFF/0; Push the Reset Button.	
DIP Switch 7 Testing Mode	When ON/1 this mode will override other Push Rate settings and assign a fixed Sensor ID (AAAAAAAA) and send data at an 8 second Push Rate. When OFF/0, the device will use its configured push rate, and self assigned Sensor ID.	

Depth: 40mm / 1.58 inches
Height: 65mm / 2.56 inches
Width: 115mm / 4.53 inches