



MicroEdge datasheet

Wireless LoRa analog 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 has a runtime of 8 - 10 years depending on the configured push rate.



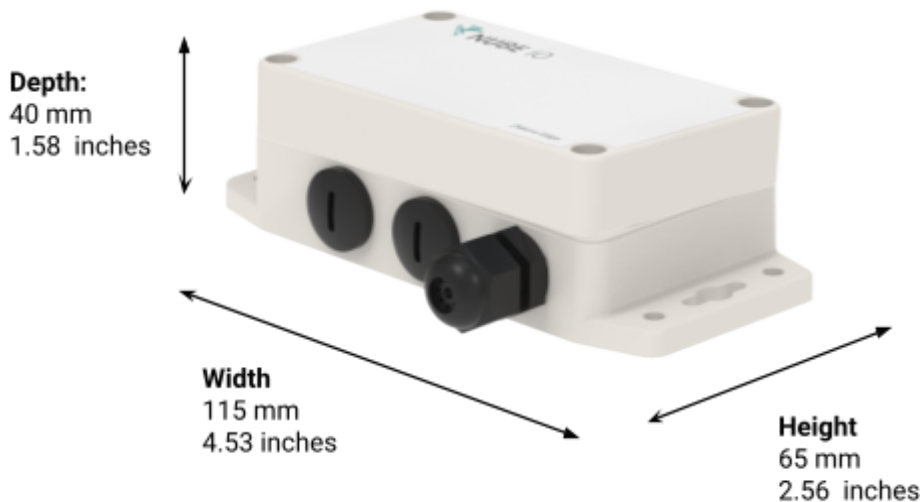
Technical Data

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 rates	Adjustable: 30sec, 1min, 3min, 5min, 15min, 30min, 1h
IP / UL rating	IP65 / UL94-V0
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 pulse (Dry Contact or 3.3v max) accumulation
Wireless Communications (LoRa)	
Transmit frequency	915 MHz
Spreading factor	7
Bandwidth	250 kHz

Configuration

DIP switch push rate								
Interval (minutes)	0.5	1	3	5	10	15	30	60
Switches 1,2,3	100	010	110	001	101	000	011	111
DIP switch setting								
Switch 6, Reset pulse count	Set DIP 6 ON/1, Push the Reset Button, Wait 5 seconds, Set DIP 6 OFF/0, Push the Reset Button.							
Switch 7, Testing mode	In the ON/1 state, this mode supersedes all other Push Rate configurations, assigning a static Sensor ID (AAACAAAA) and transmitting data at a consistent 8-second interval. Conversely, when set to OFF/0, the device adheres to its pre-configured push rate and utilizes its self-assigned Sensor ID.							

Physical attributes

Dimensions	
	
Dimensions	115mm x 65mm x 40mm or 4.53in x 2.56in x 1.58in
Operating temperature	-20°C to 80°C
Enclosure	ABS Plastic Waterproof Enclosure IP65 / UL94-V0 Rated