

Integrated Temperature and Humidity with LoRaWAN / BLE

TECHNICAL SPECIFICATIONS



Rugged Durability with a Broad Sensor Array

Robust enclosures provide a robust and resilient platform for recording and delivering sensor data from a range of harsh environments



Comprehensive Security and Reliability

Robust security at each interface to safeguard your network at every level



Broad Certification and Approvals

Ready for deployment in multiple regulatory domains - FCC, IC, CE, ASNZS, NCC, IMDA and Bluetooth SIG listing

Chipset	LoRa®	Semtech SX1272
	Bluetooth®	Nordic nRF51822 – 256 k/32 k
	LoRa Frequencies	863 – 870 MHz (EU), 902 – 928 MHz (US), 915 – 928 MHz (AU915 + AS923)
Sensors	Temperature Accuracy Ranges	-10° to +85°C (+/-0.4°C) -40° to +125°C (+/-1.1°C)
	Humidity Accuracy Ranges*	0 – 80% RH (+/- 3%) 80 – 100% RH (+/- 4.5%)
Antenna	Integrated	Custom antenna for 868, 915, or 923 MHz Ceramic chip antenna for 2.4 GHz
Power	4.375 in x 2.470 in x 1.12 in	2 x AA - replaceable
Storage	Data logging	10,000 measurements (256 k of flash memory available)
LED	Status	3 – BLE and LoRa status
Button	User Input	Multi-use – default BLE pairing
Physical	Dimensions	116 mm x 91 mm x 34 mm
Environmental	Operating Temp.	-25° to +50°C
	Storage Temperature	-40° to +50°C
Regulatory	Approvals	FCC, IC, CE, ASNZS, NCC, IMDA and Bluetooth SIG
Warranty		1 Year Warranty

* The humidity sensor is designed to work in environments where humidity is maintained between 20%RH and 80%RH. The sensor can work below 20%RH and above 80% RH, however the environment must be non-condensing.