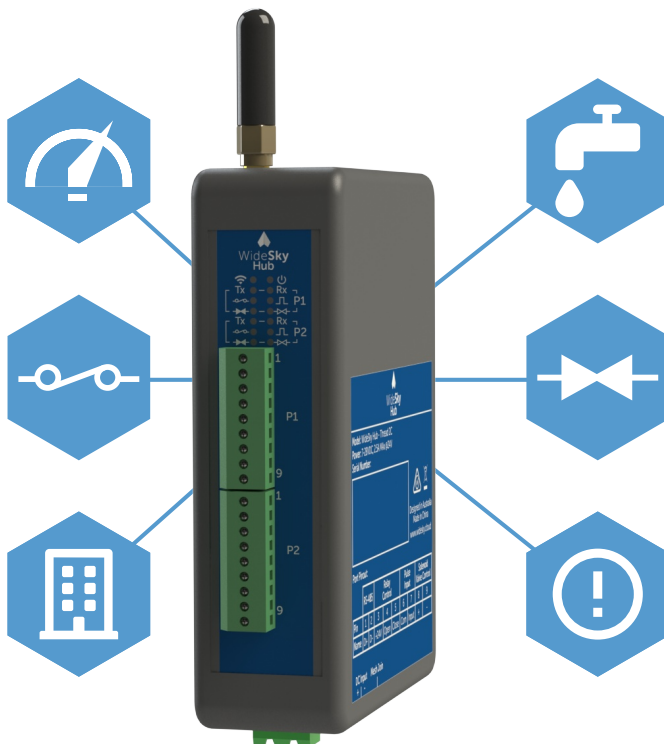# WideSky
## Hub

**WideSky® Hub** is a low-cost wireless mesh solution for distributed metering applications.

Designed to be an easily installed highly resilient metering solution, the **WideSky® Hub** Integrates seamlessly with Modbus and pulse metering devices while removing the need for time consuming and often difficult communications cable runs.

With a node to node distance of up to 200m, even the most complex installations become easy to manage.

## Key Features:

➤ Private fault tolerant mesh network
➤ Banking-class public-key cryptography
➤ 2 x Modbus & Digital inputs
➤ 2 x Relay and valve outputs
➤ Real-time control from the cloud
➤ 200m Range (LOS)
➤ On-board storage

# Specifications

### ▶ Wireless Communications
Compatibility  - 2.4-GHz IEEE 802.15.4, 6LoWPAN
Security  - AES 128/256 SHA2, Thread
Connector  - SMA, Female

### ▶ Serial Communication
Port Type  - RS-485 2-wire
No. of Ports  - 2
Compatibility  - Modbus RTU
Protection  - 15KV ESD Isolation
Connectors  - Terminal block

### ▶ Pulse Inputs
Port Type  - Digital Input (Wet)
No. of Ports  - 2
Compatibility  - Dry contact Reed switch
Protection  - 8KV ESD Isolation
Connectors  - Terminal block

### ▶ Control Output Compatibility
Electrical  - Two Coil Bi-Stable Latching
Water  - Single Coil Bi-Stable Latching
Connectors  - Terminal block or pre-wired
Voltage  - Supply Voltage (12-24VDC)
Current  - 1.2A Nominal

### ▶ General
LED Indicators  - System: Power, Error
  - Network: Connectivity, Error
  - Serial: Tx/Rx, Error
  - Pulse: Pulse Rx

### ▶ Mechanics
Dimensions  - 32x118x96mm (WxHxD)
Incl. DIN Mount- 32x118x112mm (WxHxD)
Enclosure  - ABS with mounting hardware
Mounting  - DIN-rail
Weight  - 0.3kg

### ▶ Power Requirements
Power Input  - 9 to 28 VDC
Consumption  - 7W (31W during control)

### ▶ Environment
Operating Temp - -20 to +75degrees C
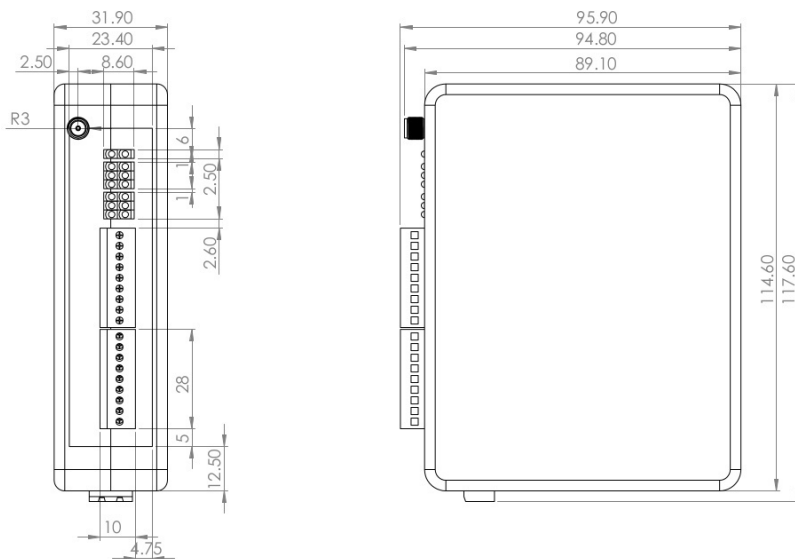Humidity  - 5-95% RH

### ▶ Regulatory Approvals
EMC  - AS/NZS CISPR 11:2011
Radio  - AS4268:2012+Amendments

### ▶ Security
AES 256 bit encryption SHA2

# Dimensions

Diamensions are in mm

## Get in touch

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