WideSky
Hub 1P-AC

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

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
➤ 1 x modbus digital input
➤ 200m range (LOS)
➤ On-board storage

BUILT ON THREAD

WideSky Hub 1P-AC Specification

▶ Wireless Communications

Compatibility	- 2.4-GHz IEEE 802.15.4, 6LoWPAN
Security	- AES 128/256 SHA2, Thread
Max. Transfer Rate	- 250kbps
Connector	- SMA, Female

▶ Serial Communication Port

Type	- RS-485 2-wire
No. of Ports	- 1
Compatibility	- Modbus RTU
Protection	- 15KV ESD Isolation
Connectors	- Terminal block

▶ Pulse Inputs

Type	- Digital (Wet, pulled to 5V)
Compatibility	- Dry contact Reed switch
Rate	- Max. 600p/min (100ms debounce)
Protection	- 8KV ESD Isolation
Connectors	- Terminal block

▶ General

LED Indicators	- Power
	- Network Status
	- Serial Rx/Tx
	- Pulse Rx

▶ Mechanics

Enclosure	- Top: Polycarbonate UL 94 V-0
	- Bottom: Polyphenylene Oxide UL 94 V-0
Mounting	- DIN-rail
Weight	- 0.3kg

▶ Electrical

Input Voltage	- 100-240Vac, 50/60Hz
Consumption	- 1W Max.

▶ Environment

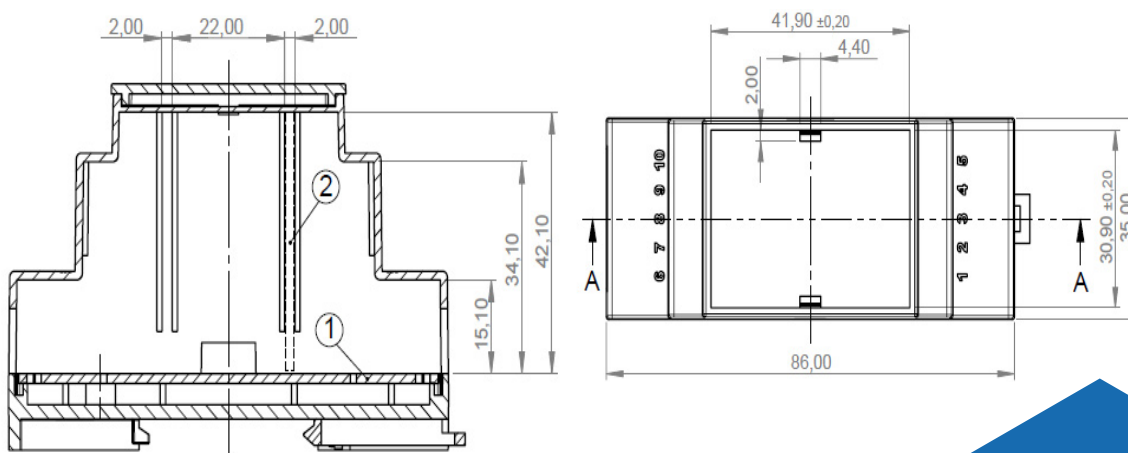|	
Operating Temp	- -20 to +75degrees C
Humidity	- 5-95% RH

▶ Compliance

Electromagnetic Compatibility	- CFR47 FCC Part 15 Subpart B
	- EN IEC 6100-3- 2 & 3
	- EN IEC 6100-4- 2, 3, 4, 5, 6, & 11 + Amendments
	- ICES-003: Issue7
	- ISED RSS-GEN Issue 5
	- ISED RSS-247 Issue 2
Radiocommunications	- ETSI EN 200 328 V2.2.2.2
	- CFR47 FCC Part 15 Subpart C
Human Exposure	- 47 CFR FCC Part 2.1091
	- EN IEC 62311
Safety	- IEC 62368-1

▶ Security

AES 256 bit encryption SHA2

Dimensions

FCC: 2A4CG-GC285686
IC: 28179-GC285686