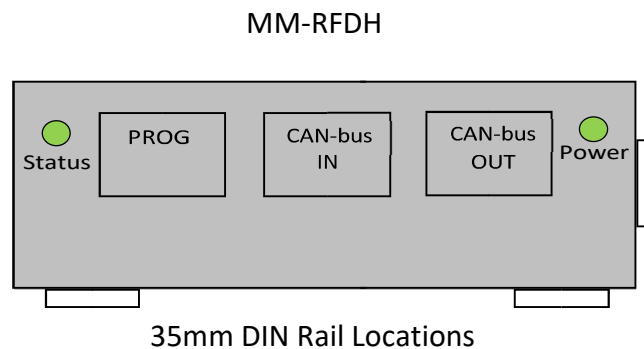


## Meter-Macs RF Data Hub MM-RFDH



## Overview

The Meter-Macs RF Data HUB, MM-RFDH, is used to transport system data message packets over a low power local radio network. System messages are presented on a wired CAN bus interface at each end of the RF link. The MM-RFDH can work either as a RF Controller at the near end of the link, or RF Data Hub at the far end of the link. As single RF Controller can server many RF Data Hubs to form a self-healing mesh network. Multiple RF mesh networks each with their own RF Controller may be installed in relatively close proximity to each other.



Each MM-RFDH is supplied preconfigured and labelled ready for installation.

## Connectivity

- CAN-bus IN: RJ45 Socket
- CAN-bus OUT: RJ45 Socket - connect to next device in chain
- Antenna: SMA Female
- PROG: RJ45 Socket for firmware update



RJ45 Pin Number	Function	Cable Wire (Pair / Conductor)
1	Ground 0V	1/1
2	Ground 0V	1/2
3	Ground 0V	2/1
4	CAN differential L	3/1
5	CAN differential H	3/2
6	CAN IN / CAN OUT	2/1
7	Power +12V	4/1
8	Power +12V	4/2

## Indication

Power: Solid Green LED  
Status: Green LED, flashing indicates linking, solid when connected

## Electrical

Power: 12V DC nominal via CAN RJ45 pins 1,2,3 (0V) & 7, 8 (+12V)  
CAN: Propriety Local Hub or Area Network modes, range 200m  
Radio: 868MHz ISM BAND ultra-low power IEEE802.15.4 Zigbee  
Protocol: Light Weight Mesh proprietary ASE128 encrypted or Serial Net (legacy)

## Mechanical

Dimensions: 40mm(h) x 100(l) x 90mm(d) Excluding cable entry  
Mounting: 35mm DIN rail clips mount horizontal or vertical