

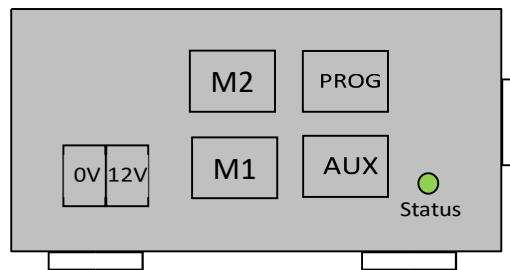
Meter-Macs Mod-bus RF Data Logger MM-MRF2



Overview

The Meter-Macs Mod-bus RF Data Logger, MM-MRF2, combines the functionality of a RF Data Hub and multi-channel Data Logger in a single compact unit. Each MRF2 provides direct connect interfacing for up to two Customer Utility Outlets and full data logging functionality for up to 16 outlets. The unit supports Mod-bus meter types and may be expanded by means of an optional RIOT module or Meter-MACS SDM320C-DI meter with inbuilt outlet support. Meter-Bus devices are catered for by means of an optional plug-in cable dongle. A Wiegand interface allows connection of an optional near field or card reader for contactless arrival and outlet operation.

MM-MRF2

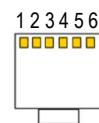


35 mm DIN rail location

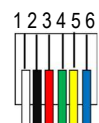
Each MRF2 is supplied pre-configured and labelled ready for installation.

Connectivity

RJ12 Pin Number	M1 (Outlet 1) Function	Cable Colour
1	M1 Pulse or M3 Auto Disconnect	White
2	M1 Auto-Disconnect	Black
3	Ground 0V	Red
4	+12V Relay Drive	Green
5	Mod-Bus A (D+)	Yellow
6	Mod-Bus B (D-)	Blue



RJ12 Pin Number	M2 (Outlet 2) Function	Cable Colour
1	M2 Pulse or M4 Auto Disconnect	White
2	M2 Auto-Disconnect	Black
3	Ground 0V	Red
4	+12V Relay Drive	Green
5	Meter-Bus +	Yellow
6	No Connection	-



Clip is Below

RJ12 Pin Number	M2 (Outlet 2) Function	Cable Colour
1	Meter-Bus Dongle Rx	White
2	Aux Relay / Meter-Bus+	Black
3	Ground 0V	Red
4	Wiegand D0	Green
5	Wiegand D1	Yellow
6	+12V dc	Blue



Indication

Status: Green LED, flashing indicates linking, solid - connected, blink off - reading meter

Electrical

Power: 12V DC nominal via 2-way 5mm pluggable screw terminal block supplied
 Radio: 868MHz ISM BAND ultra-low power IEEE802.15.4 Zigbee
 Protocol: Light Weight Mesh proprietary ASE128 encrypted
 Relay Drives: 12V DC 150mA max, short circuit and back EMF protected
 Inputs: Schmitt 3V3 logic level with inbuilt pull-up, 12V tolerant, fully debounced
 Mod-Bus: RS485, Mod-bus RTU, +/- 80V fault protected, built in 120-ohm termination

Mechanical

Dimensions: 40mm(h) x 90(l) x 75mm(d) Excluding cable entry
 Mounting: 35mm DIN rail clips horizontal or vertical mount