Output Specification

Energy pulses	
Number of pulse outputs	1
Pulse output function	kWh
Pulse output Max. current	100mA
Pulse output voltage range	5 to 27VDC
Pulse duration	50 / 100 / 150 / 200 / 250 / 300ms
Pulse resolution	0.01K, 0.1K, 1K, 0.01M, 0.1M, 1M (depending on CT ratio & PT ratio)
Communication	
Communication type	RS485
Communication protocol	Modbus RTU
Address	1 to 255
Number of bits	8 bits
Parity	None, odd, even
Baud rate (bps)	300, 600, 1200, 2400, 4800, 9600, 19200
Required response time to request	≤100ms
Number of meters connected on the bus	32 (up to 255 with RS485 repeater)
Max distance from Master device	500M

Insulation

Installation category	III
Pollution degree	2
Insulation voltage rating	300V (L - N)

Environmental Conditions

Reference temperature	23°C ±2°C
Specified temperature operating range	–10°C to +55°C
Storage temperature	–20°C to +75°C
Relative humidity	0 to 85%, non-condensing
Mechanical environment	M2
Electromagnetic environment	E2

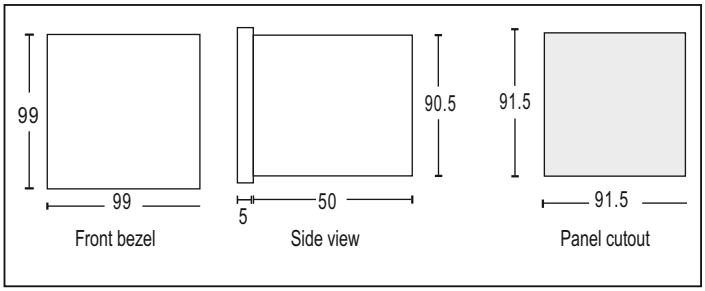
Mechanical specification

Housing	DIN96
Mounting	Panel mounted (Max. panel thickness 6mm)
Tamper sealing	Meter housing (by means of a tamper evident seal). Sealable terminal covers
Housing material	Self-extinguishing polycarbonate (UL94 V-0)
Protection degree (IEC/EN60529)	IP20 (terminals), IP54 (front of housing)
Weight	<320g

Termination

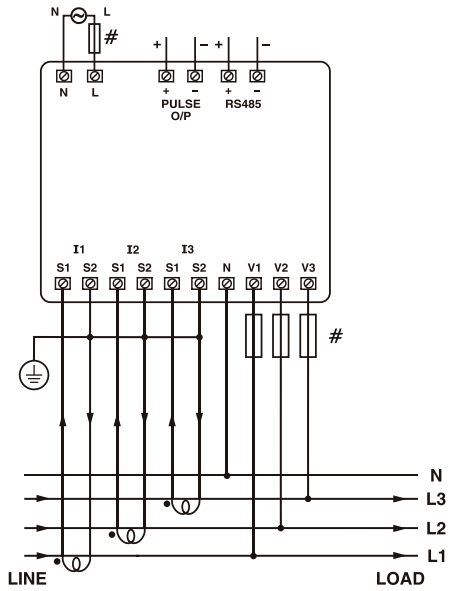
Current input	Screw clamp type
Max wire size	2.5mm²
Voltage input terminal type	Screw clamp type
Max wire size	2.5mm²
Communication output (RS485)	Screw clamp type
Max wire size	1.5mm²

Dimensions (All are in mm)

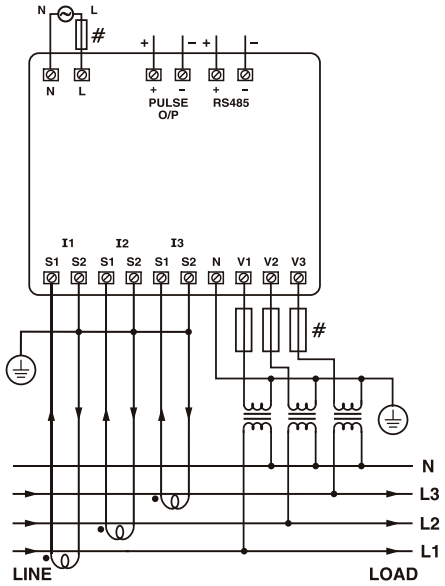


Terminal connection

3 Phase 4 Wire - 3 CTs



3 Phase 4 Wire - 3 CTs and 3 PTs



Note: # All fuse types : 0.5A class CC UL type : 0.5A fast acting 600V

Compliance

Applicable EMI / EMC Standards
Product Standard : IEC 61326 - 1
Electromagnetic compatibility
IEC61326-1, IEC/EN55011 Class A
IEC/EN61000-4-2, -3, -4, -5, -6, -8, -11
IEC/EN50470-1
Accuracy and functionality
IEC/EN50470-1/3
IEC/EN62053-21
IEC/EN62053-23
DIRECTIVE 2015/863/EU
IEC/EN62052-31
Safety
IEC/EN61010-1

Ordering information

Product code	Communication	Certification
MFM384-C-CU-MID	RS485 Modbus output	MID CE