

► MEASUREMENTS:

- SINGLE AND THREE PHASE VOLTAGE & CURRENT
- POWER: W - Wh - VA - VAh - var - varh
- FOUR QUADRANTS COSφ
- SINGLE AND TOTAL HARMONIC DISTORSION V/I
- TOTAL WORKING HOURS
- RECORDING MAX VALUE:
 - Voltage (Lx/N - Lx/Lx)
 - Current
 - THD% (V - I)
 - Temperature (internal)

► INSULATED RS-485 SERIAL INTERFACE:

MODBUS RTU / OWNER COMMUNICATION PROTOCOL

► VERY COMPACT SIZE - 2 MODULE - 35mm

► SELF-EXTINGUISHED MATERIAL UL94 V0



EU Directives - CE Marking:

> 2014/30/UE - EMC

> 2014/35/UE - LVD

TECHNICAL DATA

	UNIT	MITFR1B
Supply voltage AC ±10%	V~	230 L/N
Nominal Frequency	Hz	50 - 60 (range: 45 - 65)
Power consumption (max. AC)	VA	3.4
Rated Current (CT)	A	5 ... 50000
Immunity Time For Microbreakings	ms	< 50ms
Supply indication (PW)	-	Green LED
Communication status (RX)	-	Red LED
Measuring Type	-	True RMS
Voltage (Lx/N)	V~	5 / 280 ±1%
Voltage (Lx/Lx)	V~	5 / 490 ±1%
Current (CT)	A	0.055 / 5.5 ± 0.5%
Frequency	Hz	45 / 65 ±1%
Cosφ (Lx/Lx)	-	0.00 / 1.00 ±1%
Active Power (Lx)	W/kWh	Class 1
Reactive Power (Lx)	var/kvarh	Class 1
Apparent Power (Lx)	VA/var	Class 1
Voltage and Current THD	%	0 / 255
Ambient Temperature	°C	0/+60°C (or °F)
Working temperature	°C	-20 / +60
Storage temperature	°C	-30 / +70
RS485 Serial Insulation	kV	2.5
Overvoltage Category	-	II
Protection degree	IP	20
Pollution degree	-	2
Relative Humidity w/o cond.	RH%	90
Altitude up to	m	2000
Weight	g	180
Dimensions	mm	98 x 35.7 x 64

Real Time Values

Voltage Lx/N	V~
Voltage Lx/Lx	V~
Current	A
Cosφ	-
Active Power	W
Apparent Power	VA
Reactive Power	var

Total Counter Values

Imported and Exported	
Active Energy	Wh
Lagging Apparent Power	VAh
Leading Apparent Power	VAh
Lagging Reactive Power	varh
Leading Reactive Power	varh

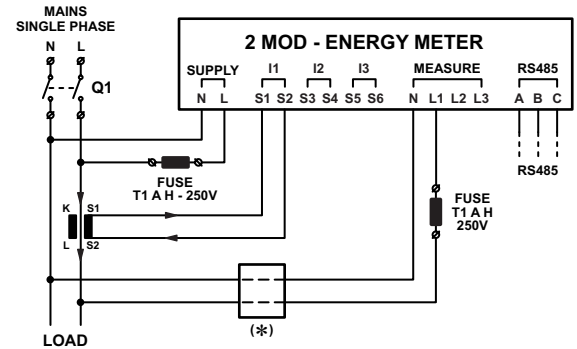
Informations

Firmware Version
CT value
Alarm Events

Communication Data

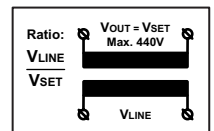
Modbus Address
Modbus Mode
Bandwidth

WIRING DIAGRAM

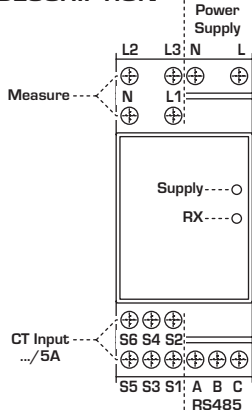


(*) Without transformer P.02 = 100 (default)

For higher supply voltage than the supported range, insert one transformer each Phase and set P.02 with transformer ratio.



DESCRIPTION



DIMENSIONS (mm)

