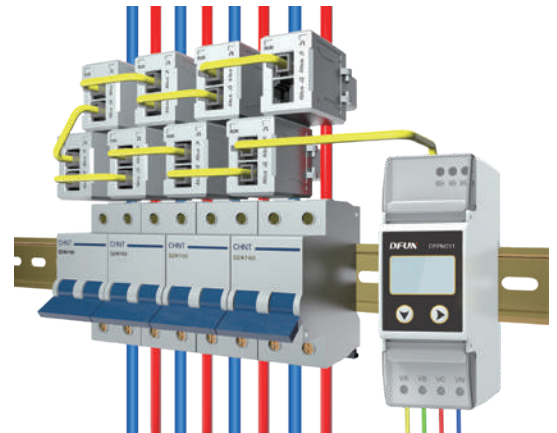


Feature

- **Application** - Telecoms site energy management, data center
- **Small size** - Can be installed at the closest point, integrate in existing space-constrained installations
- **Ultra-compact design** - Consists of control unit and current sensors (with RJ12 port, split core)
- **Wide measurement range** - Max. support 60A
- **Multi circuit** - Support 45 single phase circuit or 15 three phase circuit AC measuring
- **High accuracy** - Voltage & current class 0.5s, kWh class 1.0
- **Multi network type** - 1P2W or 3P4W



Function

Real-time measurement

- Voltage, current, active power, reactive power, power factor, frequency

Energy consumption

- Active energy, reactive energy

Alarm function

- Overload, under load, over current, sensor fault

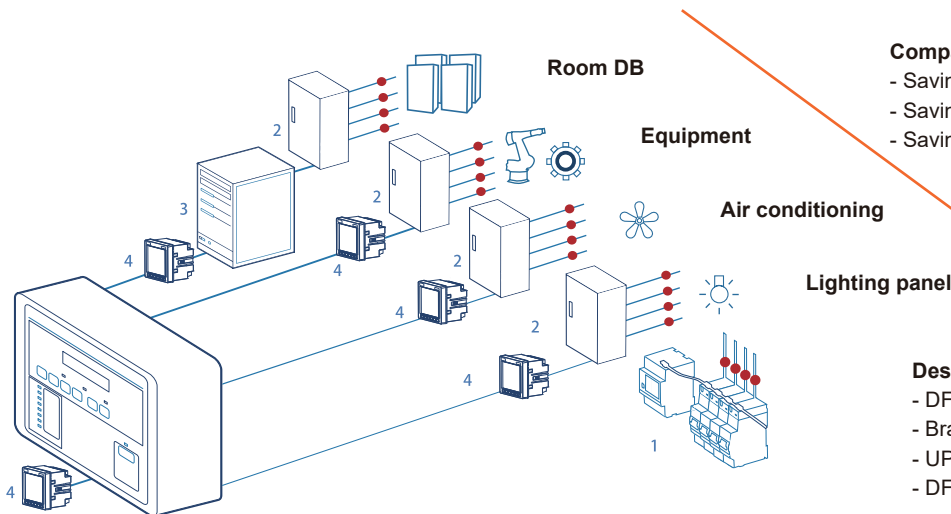
Communication

- 1RS485 port, MODBUS-RTU protocol

Optional function

- Temperature measur (4 channels)
- Leakage current measure (1 channel)

Typical Connection



Compare with traditional Din rail energy meter

- Saving 50% installation space
- Saving 50% installation hour
- Saving 50% system debug time

Description

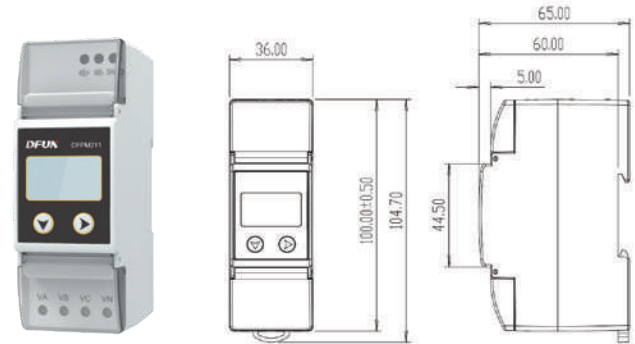
- DFPM211 (● measurement point)
- Branching cabinet
- UPS
- DFUN energy meter

DFPM211 & Accessories

DFPM211-M: Main Module

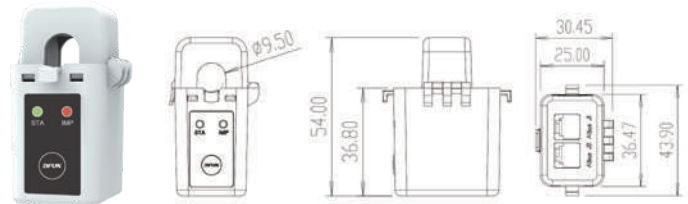
Connection mode	1P2W or 3P4W	
Power supply	Self-supply, by A phase	
Voltage input	1P2W	220V Range: 85%-120%
	3P4W	3x220/380V Range: 85%-120%
Frequency	45 ~ 65Hz	
Power consumption	≤5W	
Communication	RS485 serial, support Modbus-RTU Baud rate: 4800, 9600, 19200, 38400bps Address: 1 ~ 247	

Unit: mm



CTO: Split Core Sensor

Connection mode	Bus connection (2 x RJ12 port)
Rated current input	10(60)A
Installation	Split core
Open hole	Φ 9.5mm
Sampling rate	28k Hz



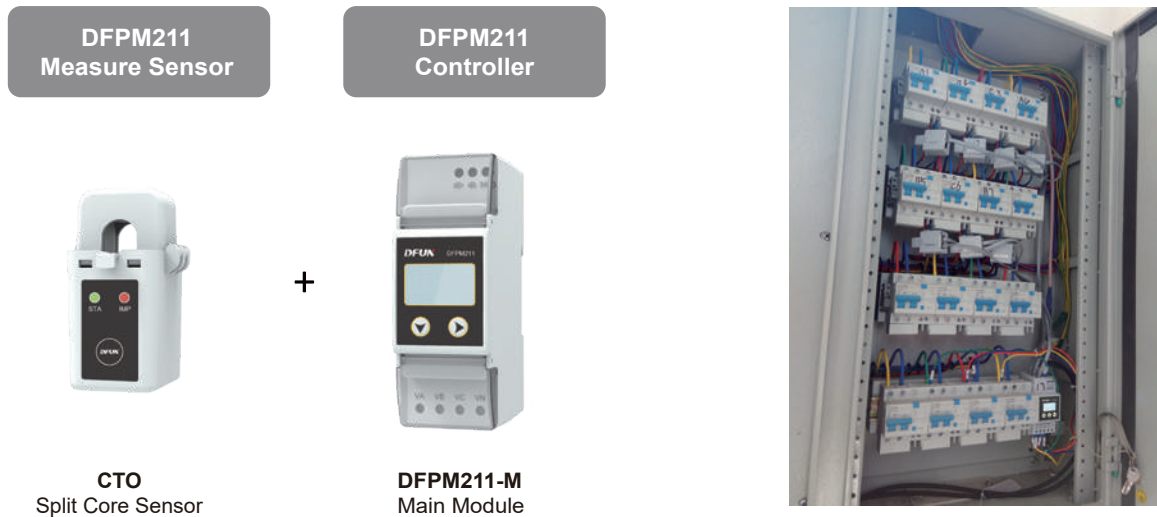
Parameter	Accuracy	Measuring range
Voltage	0.5%	85% ~ 120%
Current	0.5%	0-60A, 1% ~ 120%
Power factor	1.0%	-1 ~ 1
Active power	0.5%	Single phase: 0 ~ ±16kW/kvar Total: 0 ~ ±48kW/kvar
Reactive power	2.0%	
Apparent power	2.0%	
Active energy	1.0%	0 ~ 9999999.9 kWh
Reactive energy	2.0%	0 ~ 9999999.9 kVarh
Frequency	0.01	45 ~ 65Hz

Environment & Standard

Power frequency withstand voltage	2000VAC	Environment	Normal operating temperature: -25℃~ 55℃ Limit temperature: -25℃~ 70℃ Storage temperature: -30℃~ 80℃ Humidity: <95%, non-condensing
Insulation resistance	≥100MΩ		
Impulse withstand voltage	6kV(peak)		
IP index	IP20		

Standard (EMC)			
• Electrostatic discharge immunity test	IEC61000-4-2, Level 4	• Conduction disturbance rejection of radio frequency field induction	IEC61000-4-6, Level3
• Radiated radio-frequency electromagnetic field immunity (RFEMS)	IEC61000-4-3, Level4	• Electromagnetic emission limits	CISPR22: 2006, Pass
• Electrical fast transient test	IEC61000-4-4, Level4	• Voltage sag and short time interrupt immunity	IEC61000-4-11, Pass
• Surge immunity test (1,2/50μs ~ 8/20μ)	IEC61000-4-5, Level4	• Power frequency withstand voltage	IEC 62052-11 2003

Solution



Order Information

Module	Order code	Description
Main module	DFPM211- M	Suitable for 1P/2W & 3P/4W
Measure module	CTO	Split core sensor: 10(60)A, φ9.5mm, class 1.0
Optional module	T	Temperature measur (4 channels)
	LC	Leakage current measure (1 channel)

For example: DFPM211-M + 20pcs CTO indicates 1pcs DFPM211 main module and 20pcs CTO split core sensor.

Note:

- Standard 30cm RJ12 line (from main module to measure module) and 6cm RJ12 line (for connect each measure module), please mention for special requirement. Max. length from main module to the end measure module is 3m.