■ DIN-RAIL ENERGY METER

MCM SERIES MULTI-CHANNEL ENERGY METER









Introduction

MCM series multi-channels power meter is special designed metering device for feeder loops. Multi-function design to provide electrical parameter measurement for three-phases or single phase branch circuits, it performs a real-time metering, measures energy consumption and monitors power quality.

Advanced communications options including Modbus via RS485, optional Ethernet port; Multiple digital input ports can collect pulse signal from water meters and gas meters etc.

Main Features

- Measurement accuracy class 0.5.
- Current measuring.../5 or.../1 A.
- · Multi-circuits metering.
- · With harmonic analysis.
- · Optional 6DI, 2DO ports.
- 1.6 inch dot matrix LCD display.
- · Advanced electrical parameter meaturement.
- Provide 5 virtual alarm triggers.
- · With SPDT relay output for alarm output.
- With RS485 modbus RTU communications.
- · Optional multi-tariffs ratio.
- Optional max 99 lists SOE record.
- · Accept customization designs.

Measurement Function

Model	MCM2603	MCM2601	MCM2403	MCM2401	MCM1000		
Parameters							
Basic parameters (1)	•	•	•	•	•		
Volt.harmonic distortion	0	0	•	•	-		
Curr.harmonic distortion	0	0	•	•	-		
Individial harmonic	2-31th	2-31th	2-15th	2-15th	-		
Time of use (TOU)	0	0	-	-	-		
Voltage imbalance	0	0	0	0	-		
Current imbalance	0	0	0	0	-		
Max demand	0	0	0	0	-		
Voltage deviation	0	0	0	0	-		
SOE record	0	0	-	-	-		
Measurement signal acco	ess						
4 Channels (3P)	-	-	•	-	-		
6 Channels (3P)	•	-	-	-	•		
12 Channels (1P2W)	-	-	-	•	-		
18 Channels (1P2W)	-	•	-	-	0		
Communications and i/o	port						
Ethernet port	-	-	0	0	-		
Profibus	0	0	0	0	0		
6*Digital inputs	0	0	-	-	0		
2*Digital outputs	0	0	•	•	0		

- •With this function Optional function -Without this function
- (1) Basic parameters: Voltage, Current, Frequency, Total power factor, Active power, Reactive power, Apparent power, Active energy, Reactive energy, Individual harmonic.

Ordering Information



Num.	Code	Description	
4	1	First generation	
	2	Second generation	
2	4	4 Metering ICs built-in	
	6	6 Metering ICs built-in	
3	0	Reserved item	
4	1	Single-phase	
	3	Three-phases (Only for second generation)	



Technical Characteristics

Model	MCM2600	MCM2400	MCM1000		
Current measurement (TRMS)					
CT secondary rated	Standard 1A/5A	100mA,333mV optional	Standard 1A/5A		
Measurement range	0 9999A				
Overload	"1.2 times rated continuous; 5 seconds for 10 times the rated"				
Input consumption	<0.2 VA				
Voltage measurement (TRMS)					
PT secondary	100VAC	100VAC / 400VAC			
Frequency	45 65 Hz				
Overload	1 seconds for 2 times the rated				
Input consumption	<0.2 VA				
Direct measurement	18 300	18 400 VAC L-L(18250VAC L-N)			
Power supply					
AC voltage	DC/AC 85~265 ± 10 %, 50 / 60 Hz				
Consumption	< 10 VA				
I/O port (alarms / control)					
Number of relays	2 Channel DO & 6 channel DI	1 x SPDT relay	2 Channel DO & 6 Channel DI		
Туре	230 VAC 5 A, passive node	230 VAC 5 A, passive node	230 VAC 5 A, passive node		
Communication					
Link method	RS485 (2/3 wires half duplex)				
Protocol	Modbus RTU				
MODBUS speed	4800/9600/12800/19200bps				

