



Application

- AC load management
- Data Center Power Management
- Telecommunication Power Management

Function

- **Measuring:** 1 main circuit + 42 branch circuits
- **DI/ DO:** 4 status input (dry contact), 2 relay outputs, 1 pulse output
- **Settable Pre-Alarm function:**
 - Main circuit:** Alarm for voltage, current, current unbalance (optional alarm for leakage current/ temperature)
 - Branch circuit:** Alarm for current (lo-lo-limit, lo-limit, hi-limit, hi-hi-limit)
- **Communication:** RS485, support Modbus-RTU protocol
- **Phase sequence of branch circuit is programmable.**
- **Optional CT input for branch circuit:** 50A, 100A, 200A, 400A, 600A
- **Settable wiring for branch circuit:** Either single phase or 3 phase
- **Historical kWh record:** kWh yearly consumption of last 10 years, kWh monthly consumption of last 12 months

Measurement

Main circuit measuring:

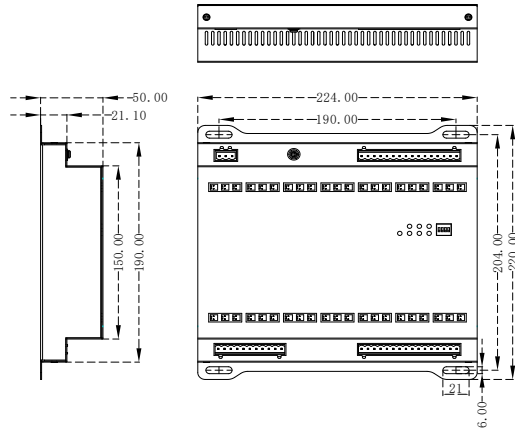
	Accuracy
➤ Voltage-Ua, Ub, Uc	(0.5%)
➤ Current--Ia, Ib, Ic, In, I unbal, Max. I	(0.5%)
➤ Active power-- Pa, Pb, Pc, ΣP	(1.0%)
➤ Reactive power -- Qa, Qb, Qc, ΣQ	(2.0%)
➤ Power factor -- PF	(1.0%)
➤ Frequency -- F	(± 0.01 Hz)
➤ Active energy -- kWh	(1.0%)
➤ Reactive energy -- kvarh	(2.0%)
➤ Demand (for 3I, 3P, Ptot) and Max. demand	
➤ THD for U, I	(2~31 st)
➤ Leakage current (optional)	(0.5%)
➤ Temperature (optional)	(0~120°C)

Branch circuit measuring:

	Accuracy
➤ Current--I, Max. I,	(0.5%)
➤ Active power-- -P,	(1.0%)
➤ Reactive power--Q,	(1.0%)
➤ Power factor-- PF	(1.0%)
➤ Active energy--kWh,	(1.0%)
➤ Reactive energy--kvarh,	(2.0%)
➤ Demand (for I, P) and Max. demand	
➤ THD for I	

EnergM-206 & Accessories:

◆ Main Module



Unit: mm

◆ CTs

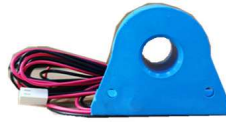
>> CT group (3CTs in one) for branch circuit

>> Individual CT for branch circuit

>> Leakage CT



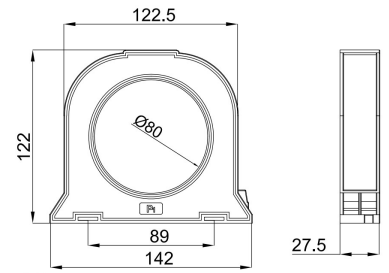
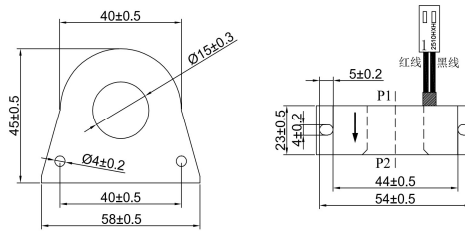
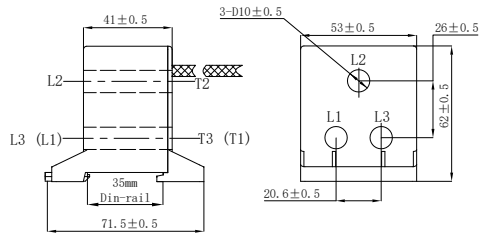
LACT-60M2
Input 60A, cable 2.5m



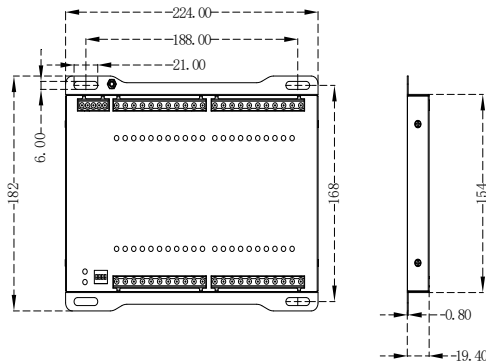
LACT-50C1/ 100C2/ 200C2/ 400C2/ 600C2
Input 50A/100A/ 200A/ 400A/ 600A, cable 2.5m



503L-250
Input 1A

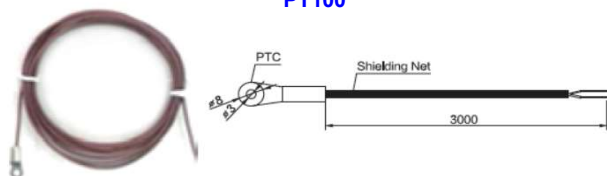


◆ Optional DI Module



Unit: mm

◆ Optional Temperature Sensor



Unit: mm

◆ **Optional Display Module**

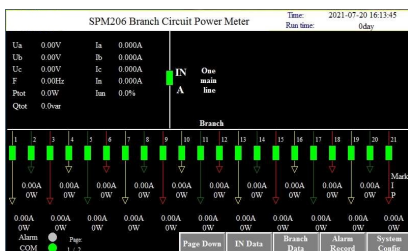
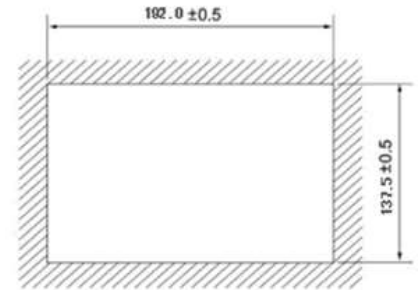
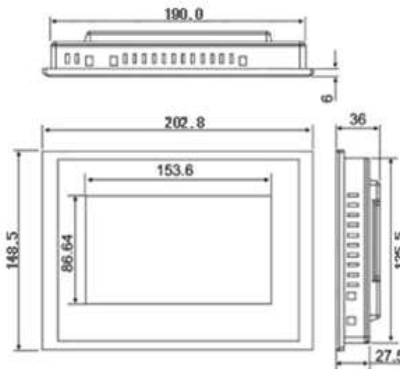
Unit: mm

HMI: 7" touch screen LCD. One HMI monitors max. 4 units of Энергом-206 main module

Resolution ratio: 800 × 480



Energom-201V6

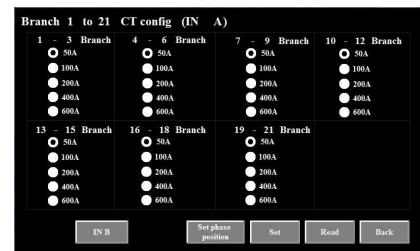


Circuit diagram

IN A Real-time data

Item	Phase A	Phase B	Phase C	Total	Neutral line	Unit
V	0	0	0	0	0	V
I	0	0	0	0	0	A
Max I	0	0	0	0	0	A
Dead_I	0	0	0	0	0	A
Max_dsd_I	0	0	0	0	0	A
P	0	0	0	0	0	W
Dead_P	0	0	0	0	0	W
Max_dsd_P	0	0	0	0	0	W
Q	0	0	0	0	0	var
THd0	0	0	0	0	0	%
THd1	0	0	0	0	0	%
Load current	0	0	0	0	0	%
Total kWh				0	0	kWh
Total kWh				0	0	kWh
PF	0	0	0	0	0	NA
S	0	0	0	0	0	NA

Real time measurement



Branch Circuit Configuration



Parameter and Alarm Setting

Historical record

Date	Time	Alarm description
2021.07.20	15:04:13	Power on record

History and Alarm record

History Energy Record

XXXX Year	1 to 42	Yearly kWh	IN	0.0	kWh		
Branch 1	2	3	4	5	6	7	Unit
Energy data	0.0	0.0	0.0	0.0	0.0	0.0	kWh
Branch 8	9	10	11	12	13	14	Unit
Energy data	0.0	0.0	0.0	0.0	0.0	0.0	kWh
Branch 15	16	17	18	19	20	21	Unit
Energy data	0.0	0.0	0.0	0.0	0.0	0.0	kWh
Branch 22	23	24	25	26	27	28	Unit
Energy data	0.0	0.0	0.0	0.0	0.0	0.0	kWh
Branch 29	30	31	32	33	34	35	Unit
Energy data	0.0	0.0	0.0	0.0	0.0	0.0	kWh
Branch 36	37	38	39	40	41	42	Unit
Energy data	0.0	0.0	0.0	0.0	0.0	0.0	kWh

History Energy Record

Technical Specification

Main circuit	1 circuit, three phase AC 220V/ 380V	Demand	Demand Interval: 15 mins Slip interval: 1 mins
Branch circuit	Max. 42 circuit per unit	Communication	RS485 port Baud rate: 2400, 4800, 9600, 19200, 38400 (optional)
Power supply	AC 220V, range: 85~264V	DI module	Main Income Circuit 4DI: Dry contact DI module for branch circuit: wet contact, 220Vac, Range: 70~120%, or Dry contact (optional)
MTBF	≥50000h	Relay output capacity	250Vac/5A or 30Vdc/5A
Service life	10 years	IP index	Main Module: IP20 HMI (Front board): IP65
Rated voltage	AC 220V, Range: 10%~120%, Accuracy: 0.5%	Insulation Resistance	≥100MΩ IEC62052-11
Main circuit rated current	5A via CT, CT primary to 2000A Range: 1%~120%, Accuracy: 0.5%	Environment	Operation: -10°C ~ +55 °C Storage : -25°C ~ +70 °C Humidity: 5%~95%, non-condensing
Branch circuit rated current	50A~600A up to the CT Range: 1%~120%, Accuracy: 0.5%		
Active power and Active energy	Main circuit Accuracy: 1% Branch circuit Accuracy: 1%		
Rated frequency	50Hz, Range: 45~60Hz, ±0.01Hz		

Order Information

Энергом-206		Order code		Description
Main module	Energom-206-42-	C1	Branch Circuit Rated Current: 50A	
		C2	Branch Circuit Rated Current: 100A	
		C3	Branch Circuit Rated Current: 200A	
		C4	Branch Circuit Rated Current: 400A	
		C5	Branch Circuit Rated Current: 600A	
Optional module	Energom-201V6		HMI - 7" touch screen LCD	
	Energom-206K-21		Branch Circuit DI Module: 21 channel (2 options: dry contact or supply AC 220V)	
	Energom-206K-42		Branch Circuit DI Module: 42 channel (2 options: dry contact or supply AC 220V)	
Accessory	Branch circuit CT	LACT-60M2		Rated current 60A CT group, hole diameter: Φ 10mm Each group has 3 CTs to measure 3 circuits
		LACT-xxxxx	50C1	Rated current 50A, hole diameter: Φ 9mm
			100C2	Rated current 100A, hole diameter: Φ 15mm
			200C2	Rated current 200A, hole diameter: Φ 25mm
			400C2	Rated current 400A, hole diameter: Φ 34.5mm
	600C2		Rated current 600A, hole diameter: Φ 34.5mm	
Leakage CT	503L-250		Primary 1A, hole diameter: Φ 80mm	
Temperature sensor	MS6-PT100B-3000		PT100	
24VDC Relay	MY2N-GS		Switch HMI main /back up power supply Select when there has 2 main input circuit.	

Note: Above branch circuit CT comes with 2.5m cable. If project require split core CT, please inform the sales to order split core CT.