DCEM

Multi-channels DC energy meter

Description

DCEM are special design for DC circuit metering, multi-channels design can reduced the hardware cost of project. Meter body provide AXU terminal for external Hall CT, accept up to 3000A four channel amp reading and energy consumption value record.

Optional analog, digital, relay and alarm output is available via field-swappable plug-in communications modules. Also provide on-board RS485 serial communication port (MODBUS RTU) to send data to the external systems.

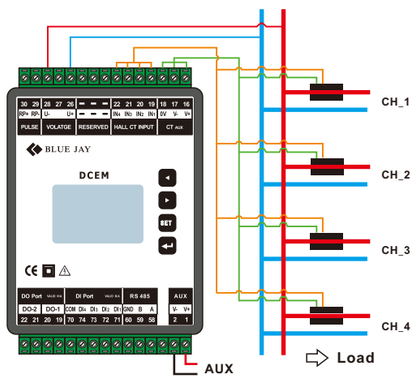
Technical characteristics

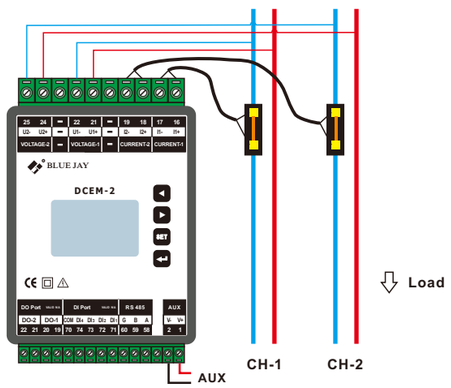
Power supply:	
Power Supply	85~265VDC/AC 20~60VDC optinal
Consumption	< 4 VA
Measurement:	
Current signal	0 - 4VDC (hall CT access)
Hall CT external AUX	+/-15V
Voltage signal	Typical 300V Max up to 1000V
Measurement channel	4 channels
Precision	0.5 class (depends on CT)
Isolation:	
Insulation Resistor	>100MΩ
AC 2kV / 1min between AUX to current signal / DI / RS485	
AC 1kV / 1min between current signal to DI / RS485	
AC 2kV / 1min between voltage to AUX / DI / RS485	
Communication port	
Digital Link	RS485 MODBUS-RTU
DO port	2 channels (Optional)
DI port	4 channels (Optional) Ri<500Ω ON / Ri>100kΩ OFF
Other:	
Ambient Temp. / Humi.	-10 ~ 55 C / ≦93% RH
Dimensions	87.3*132*46.5mm (L * H * D)

Sub-models

DCEM	4 Channels Hall CT connected Common voltage signal
DCEM-2	2 Channels Shunt connected Isolated voltage signal

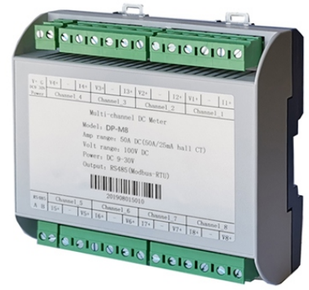
Typical wiring





DCPM

Multi-channels Isolated DC Monitor



Description

DCPM series meter is an advanced solution for multi-channel metering in DC system. It provides max 24 channels, full isolated for collect voltage, current, power data and energy generate & consumption data.

With RS485 communication interface, DCPM can be connected to the monitoring center or on-site host. It is a high-performance automatic metering device suitable for solar plant and Telecom server room, BMS application in UPS system etc.

Technical characteristics

Power supply:	
Power Supply	9~30VDC or 9~57VDC
Consumption	< 4 VA
Measurement:	
Current signal	1mA, 20mA, 100mA, 1A, 5A, 10ADC over 10A use external CT or Hall CT
Voltage signal (Optional)	75mV, 1V, 5V, 10V, 50V, 100V, 250V, 400V (Default 100V)
Frequency response	0-1000Hz
Sampling ratio	20ms~1000ms adjustment, (default 100ms)
Load Resistance	Current: <0.15V / channel Voltage: >2Kohm/V
Precision	0.2% F.S
Isolation:	
Insulation Resistor	>100MΩ
AC 2.5kV / 1min between AUX to current signal / DI / RS485	
AC 1.5kV / 1min between current signal to DI / RS485	
AC 2.5kV / 1min between voltage to AUX / DI / RS485	
Communication port	
Digital Link	RS485 MODBUS-RTU
Other:	
Ambient Temp. / Humi.	-20 ~ 70 C / ≦93% RH
Dimensions	120*110.5*50mm (L * H * D)

Sub-models

DCPM	8 Channels
DCPM-24	24 Channels

Typical wiring