



DC ENERGY METERS

Complete and accurate readings of DC electrical parameters

ACCURATELY MEASURE ALL DC-BASED ELECTRICAL PARAMETERS.

- Multiple channels can be measured by a single meter upto **1000V voltage input**
- **4 Current Input** channels
- 1 Voltage input channels
- **Differential current input** for all the current channels
- **Bi directional current** measurement to study charging and discharging circuits

IMPROVE ENERGY EFFICIENCY OF DC ELECTRICAL SYSTEMS.

- Current full scale programmable independently
- Programmable Shunt secondary (50mV to 100mV) – for Shunt based.
- Programmable CT Primary for all channels up to 200A - for Hall Effect CT
- Optional RS485 communication
- Auxiliary supply: 15 to 60V DC

ENSURING PROPER OPERATION AND SAFETY OF DC ELECTRICAL SYSTEMS.

- Energy resetting at 99999999k x PTpri x CT pri
- Auto scaling and Auto scrolling
- Cleared parameters through key press
- User configurable and editable password
- Compact size and weight
- Easy installation and simple wiring

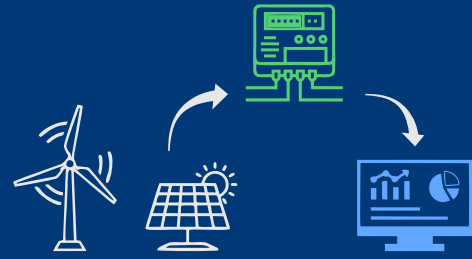
UPTO
1000V DC
Measurements


BI-DIRECTIONAL
Power monitoring


BEMS
Network connectivity

SMART DEVICE FOR ALL RENEWABLE ENERGY RESOURCES!

Multi-channel DC energy, Voltage/Current full scale



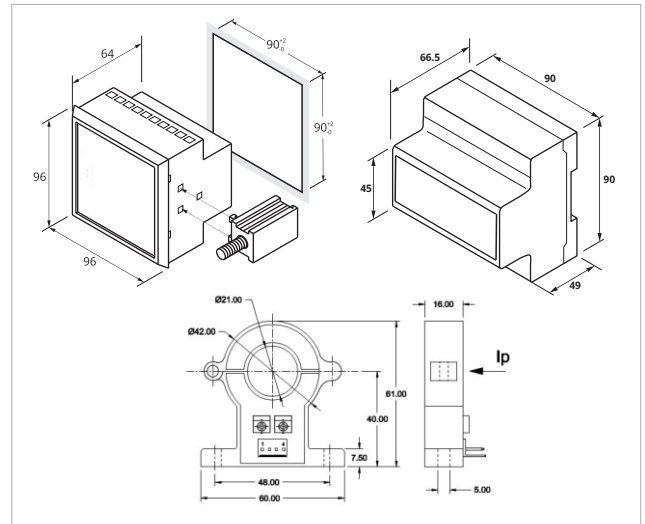
Application

- Renewable energy systems such as solar photovoltaic (PV) arrays, wind turbines, & electric vehicle (EV)
- Telecommunication & Data centres
- DC Energy Management Systems
- Transportation
- Industrial Applications

Applicable Standards

- DIN 40050, EN 60529 Degrees of protection provided by enclosure for electrical equipment against ingress of solid foreign objects.
- IS 12784 Electrical measuring transducers for converting AC electrical quantities into DC electrical quantities.

Mechanical Specification



Technical Specification

Specification	EDC 2150 / 2150D Single Channel	EDC 2450 / 2450D Four Channel	EDC 2450H Four Channel with Hall Effect
GENERAL CHARACTERISTICS			
Current Sensing Through:	DC Shunt		Hall Effect CT
Rating:	Shunt mV rating 50 mV to 100 mV (Programmable with individually programmable primary current of range 0.001 to 999.9kA.		Hall Effect CT rating up to 200A.
Mounting:	Panel Mount /DIN-Rail Mount		DIN-Rail Mount
Accuracy:	Class 1.0 FS (0.5 FS optional - MOQ on request).		
Number of Channels:	1 channel voltage & 1 channel current	1 channel voltage & 4 channel current	
Voltage Input Range:	10V to 1000V DC (48V default). Varieties of range in voltage like 100V DC, 300V DC, 800V DC, 1000V DC, etc (factory settable only)		
Auxiliary Supply:	15 to 60V DC		
Display:	1 row 7 digit LCD.		
COMMUNICATION			
RS485 Interface:	Serial channel connection industry standard MODBUS RTU protocol. Baud rate: 4800 bps to 38400 bps (preferred 9600 bps). Isolation: 2000 volts AC isolation for 1 minute between communication and other circuits.		
ENVIRONMENTAL CHARACTERISTICS			
Humidity:	5% to 95% non condensing		
Ingress Protection:	IP 51		
Operating Temperature:	-10°C to +55°C (14°F to 131°F).		
Storage Temperature:	-25°C to +70°C (-13°F to 158°F)		
MECHANICAL CHARACTERISTICS			
Dimension	Panel Mount: 96 x 96 x 57mm, DIN-Rail Mount: 90 x 90 x 67mm		
Screw:	M3	M2 for current connector and M3 for voltage connector	
Torque (Max):	1 N-m	0.2 N-m	
Wire Gauge:	28-16 AWG		
Weight (Approx.):	Unpacked: 300g, Packed: 350g	Unpacked: 575g, Packed: 675g	