

Complete and accurate readings of DC electrical parameters

ACCURATELY MEASURE ALL DC-BASED ELECTRICAL PARAMETERS. IMPROVE ENERGY EFFICIENCY OF DC ELECTRICAL SYSTEMS. ENSURING PROPER OPERATION AND SAFETY OF DC ELECTRICAL SYSTEMS.

- 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
- Display parameters
- Volts, Amps, watts, Load hours and Energy

- Current full scale programmable independently
- Programmable Shunt secondary (50mV to 100mV) – for Shunt based.
- Datalog: Programable time interval 1min to 12 hrs. Programmable upto 29, can be selected as 1, 2, 4,9, 14,29, and logged can be download from the Application
- Optional RS485 communication
- Auxiliary supply: 15 to 60V DC

- 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







Parameters	Panel/Din-Rail Mount single Channel	Panel/Din-Rail MountFour Channel	Din-Rail MountFour Channel with Hall Effect
ACCURACY	EDC 2150 / 2150D	EDC 2450 / 2450D	EDC 2450H
Class 1.0	✓	√	✓
Class 0.5	✓** (Only for 2150D)	✓** (Only for 2450D)	
BASIC PARAMETERS			
DC Voltage	✓	✓	✓
Current - Channel-1	✓	✓	✓
Current - Channel-2		✓	✓
Current - Channel-3		✓	✓
Current - Channel-4		✓	✓
POWER PARAMETERS			
Watts - Channel -1	✓	✓	✓
Watts - Channel -2		√	√
Watts - Channel -3		√ ·	√
Watts - Channel -4		✓	✓
IMPORT(Charged) ENERGY	PARAMETERS		
Wh- Channel-1	✓	✓	✓
Wh- Channel-2		√	√
Wh- Channel-3		✓	✓
Wh- Channel-4		√	√
Ah -Channel-1	√	√	√
Ah -Channel-2	·	· ✓	· ✓
Ah -Channel-3		<i>,</i> ✓	✓
Ah -Channel-4		✓	√
Old Ah- Channel 1 to 4	✓	✓	✓
Load hours	✓	✓	✓
Old Load hours	√ *	√ *	√ *
Old Wh - (Channel 1 to 4)	√ *	√ *	√ *
Old Ah - (Channel 1 to 4)	√ *	√ *	, √*
EXPORT(Discharged) ENER	RGY PARAMETERS		
Wh- Channel-1	√	✓	√
Wh- Channel-2		✓	√
Wh- Channel-3		· ✓	· ✓
Wh- Channel-4		✓	√
Ah -Channel-1	✓	✓	✓
Ah -Channel-2	·	<i>√</i>	· ·
Ah -Channel-3		√	↓
Ah -Channel-4		√	·
Load hours	✓	· ✓	✓
Old Load hours	√ *	√*	· ✓*
Old Wh - (Channel 1 to 4)	√ *	√ *	√ *
Old Ah - (Channel 1 to 4)	√ *	√ *	√ *
COMMUNICATION			
Modbus RTU - RS485	[/]	✓	✓
/ Default [√] Optional		√**MOQ	

elmeasure.com

SMART DEVICE FOR ALL RENEWABLE ENERGY RESOURCES!

Multi-channel DC energy, Voltage/Current full scale

Application

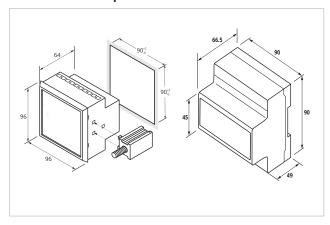
- Renewable energy systems such as solar photovoltaic (PV) arrays, wind turbines, & electric vehicle (EV)
- Telecommunication & Data centres
- DC Energy Management Systems
- Transportation
- Industrial Applications

Applicable Standards

DIN 40050, EN 60529

Degrees of protection provided by enclosure for electrical equipment against ingress of solid foreign objects.

Mechanical Specification



Technical Specification

reenineat Speen			
Specification	EDC 2150 / 2150D Single Channel	EDC 2450 / 2450D Four Channel	
GENERAL CHARACTERISTICS			
Current Sensing Through:	DC Shunt		
Rating:	Shunt mV rating 50 mV to 100 mV (Programmable with individually programmable primary current of range 0.001 to 999.9kA.		
Mounting:	Panel 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 19200 bps (preferred 9600 bps). Isolation: 2000 volts AC isolation for 1 minute between communication and other circuits.		
ENVIRONMENTAL CHARAC	TERISTICS		
Humidity:	5% to 95% non condensing		
Ingress Protection:	IP51		
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 CHARACTER	ISTICS		
Dimension	Panel Mount: 96 x 96 x 57mm, DIN-Rail Mount: 90 x 90 x 67mm		
Screw:	M3		
Torque (Max):	1 N-m		

28-16 AWG

Unpacked: 300g, Packed: 350g

Wire Gauge: