

# DC Multi Function Meters SNM-03/DCM-01

## Features

- Micro Controller based 1 Channel DC Energy Meter
- Programmable Shunt ratios.
- Alphanumeric display for Parameter & numeric display values.
- RS-485 serial port with Mod-bus RTU output.



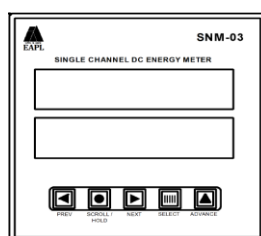
## Ordering Information

Models	Function	Source Voltage	Display Parameters		Input Voltage
SNM-03	DC Multi Function meter	85V-270V AC/DC	V, A, KW, KWh, MWh, LH, OLd KWh, OLd MWh, OL,DEV Id		5V DC to 1000V DC
DCM-01	Bi-Directional Solar Energy Meter		Main	V, ±A, ±KW, F-KWh, F-MWh, F-Load on Hours,RA, R-KW, R-KWh, R-MWh,R-Load on Hours, DeviceID & Communication Status	
			Old Energy	F-KWh, F-MWh, F-Load on Hours, R-KWh, R-MWh, R-Load on Hours	

Front View

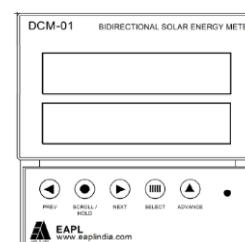
SNM-03

DCM-01

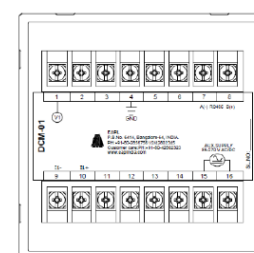
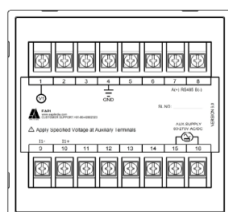


Rear View

SNM-03



DCM-01



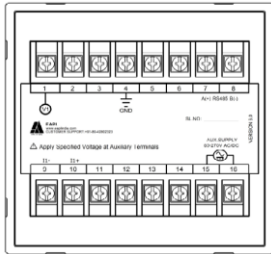
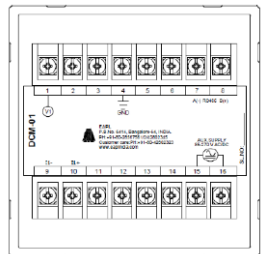
## Over-all Dimension

Models	Dimension Details in mm			Cutout Dimension in mm	
	W	H	D	W	H
SNM-01	96	96	95.5	92	92
DCM-01	96	96	117	92	92

## ■ Specifications

Parameters	Models	SNM-03	DCM-01
Function		DC Multifunction Meter	Bidirectional Solar Energy Meter
Aux. Supply		85 to 270V AC/DC	
Input voltage		5V to 1000V DC	
Input Shunt Current		1A to 500A	
Accuracy	Voltage	$\pm 0.3\%$ of FS, 100V to 500V DC $\pm 1.0\%$ of FS, above 500V DC	
	Current	$\pm 1.0\%$ of reading up to 10A $\pm 0.5\%$ of reading above 10A	
Energy		$\pm 1\%$	
Resolution	Energy	0.001 KWH	
	Voltage	0.1V DC	
	Current	1-10A 10mA 10-500A 100mA	
Communication		RS-485 MODBUS RTU Protocol	
Power Consumption		AC Approx.6VA DC Approx.4W	< 5VA / 3W
Recovery Time		2 sec minimum	
Field Configurable features	Shunt mV	60 mV or 75 mV Programmable	
	Shunt Current	1A to 500 A Programmable	
	Baud rate	4800 , 9600 , 19200bps	
	Device ID	1 to 247	
Protection of configuration settings		User settable Password Ranging from 0001 to 9999	
Insulation		>100M ohms @ 500V DC	
Dielectric strength		a ) 2.5 K V A C, 50Hz for 1 minute (Between current carrying & non-current carrying parts)	
Electrical connection		Screw type terminals with self lifting	
Ambient Temperature		Operation: -10°C to +55°C(14°F to 131°F)    Storage: -25°C to +80°C(-13°F to 176°F)	
Humidity		Up to 95% RH @ 40°C	
Dimension (W x H x D)		96 X 96X 95.5 mm	96 X 96X 117 mm
Cut-out Dimension(W x H)		92X92 mm	

## Connection and Terminal Details

	SNM-01	DCM-01
Connection Details		
Terminal Details	1, 4 : V1,GND 7,8 : [A(+),B(-)] (RS 485Communication port) 9, 10 : I1-, I1+ 15,16 : Auxilary Supply(110-270 VAC/DC)	1, 4 : V1,GND( Voltage I/P) 7,8 : [A(-),B(+)] (RS-485 Communication port) 9, 10 : I1-, I1+ ( Current I/P from shunt) 15,16 : Auxilary Supply(85-270 VAC/DC)