

MFM 142DC

DC Multi Function Meter



TECH SPECS

Dimension (HxWxD) mm	96 x 96 x 54
Panel Cutout (mm)	92 x 92
Input	
DC Voltage	0 to 1000V DC
Primary Shunt Selectable	5 to 9999 Amp DC
Input Current	-75 To 75 mV DC Through Shunt
Calculated Parameter	DC Voltage, Ampere, Watt, kWh
Output	2 Relay , 1C/O (NO-C-NC), 10Amp,230V AC RS-485 Modbus (Optional)
Accuracy	Class 1.0
Power Supply	100 to 270V AC, 50/60 Hz, 5VA

APPLICATIONS

Electrical Control Panel

Instrumentation Panel

Solar Panel

EV Charging Station

Technical Specifications

Input	
Voltage	
Direct Voltage DC	0.00 to 19.99V DC 20.0 to 49.99V DC 50.0 to 199.9V DC 200.0 to 1000V DC
Current DC	
Direct Current	Through External Shunt (-75 TO 75mV DC)
Burden	<0.2 VA
Starting Current	10mA (Depend on shunt selection)
Shunt Selectable	5 to 9999 Amp DC

Auxiliary Power Supply	
Power Supply	100 to 270V AC, 50/60 Hz
Burden	5VA

Physical	
Mounting Type	Panel Mount
Size (H x W x D)mm	96 X 96 X 54
Front Bezel (H x W) mm	96 X 96
Panel Cutout	92 X 92 mm
Depth Behind panel	54mm
Material	ABS
Accessory	2 Panel Mounting Clamp
Protection (As Per Request)	IP 65 (Front Side)
Terminal & Cable Size	Barrier Type terminal Cable Size (2.5 mm ²)

Calculated Parameter		
DC Voltage	Range	Accuracy
	0.00 - 49.99 V DC	1 % OF 49.99V
	50.0 - 199.9 V DC	1 % OF 199.9V
	200.0 - 399.9 V DC	1 % OF 399.9V
	400.0 - 1000 V DC	1 % OF 1000 V
DC Current	-999 - 9999A DC	
WATT	-999 - 9999 KW	
KWH	0 to 999999	

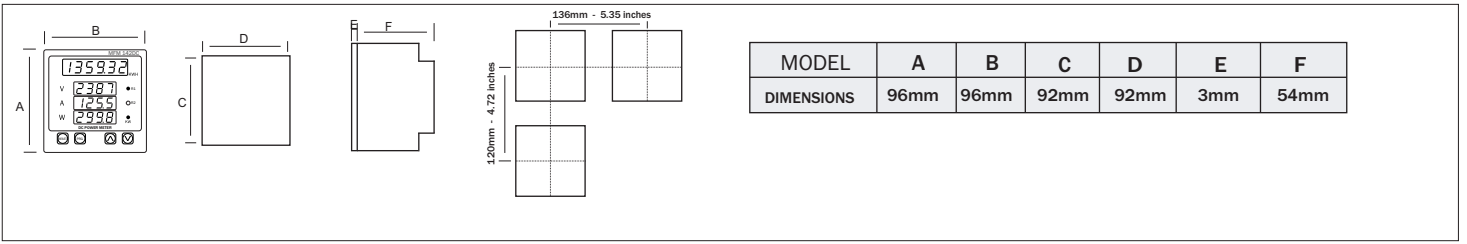
Environmental	
Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95% RH Non-condensing

Display & Keys	
Display	6 Digit, 1Line 7 seg. 0.40" Red LED Display 4 Digit, 3Line 7 seg. 0.40" Red LED Display
LED INDICATION	Relay 1, Relay 2, KW
Key	RESET, PRG, INC, DEC

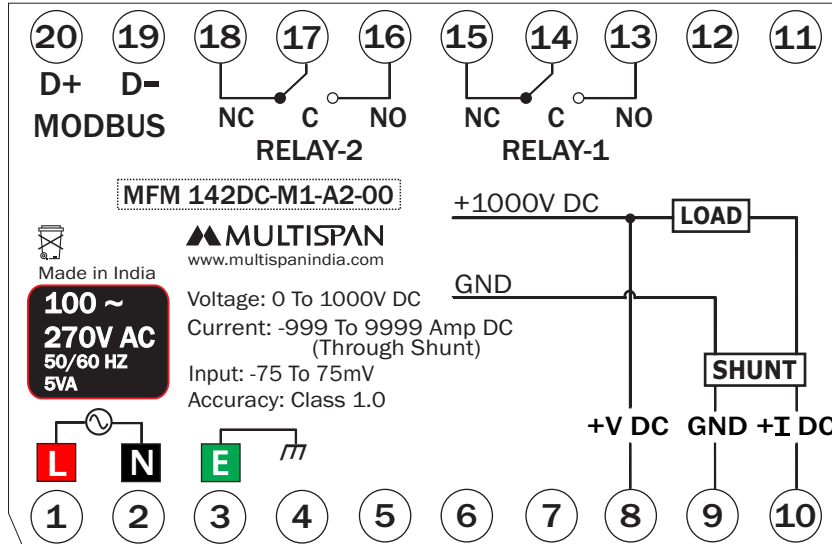
Accuracy
Class 1.0 (Standard)

Output
RS-485 Modbus (Optional)

Mechanical Dimension



Connection Diagram



Multispan reserves the right to change specifications without prior notice. Printing and typographical errors reserved.
Product improvement and upgrade is a constant procedure. So for more updated operating information & support contact us.

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