Four Channel DC ENERGY METER

Model 2233 S4K
(Shunt Input)

SPECIFICATIONS

VP Electronics

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ADS33S4K

DC Energy Meter Specifications	
Scope	This specification covers the requirement of Energy Meters with LCD for measurement of Energy (KWh) of - 48V DC network.
DC Energy Meter	1. 4 CHANNEL mV Input for Current measurement 2. Self powered voltage measurement 3. backlit 16 X 2 LCD DISPLAY 4. Programmable SHUNT parameters 5. Password protected reset mode for kWh 6. Last displayed reading stored for kWh
Applicable Standards	Applicable for 1.0 % class of measured value accuracy, accuracy stable with time.
Current Rating:	The 4 current ports are to be provided with suitable rating of shunt Externally
	The maximum continuous current (Imax) shall be 120%, Minimum being 2.5%
Power Consumption	power consumption of meter at reference voltage, reference temperature & frequency will be typical 2.0 Watt
Construction	The meter is suitably protected against dust and moisture. The enclosure for meter is ABS
Mechanical dimension of meter	Casing :96mm*96mm*25 mm Box :96mm*96mm Panel cutout: 91 X 91 mm
Electrical properties of meter	Power : 20 - 60VDC Voltage : Measured from power input Current : 1 – 99.0 mVDC drop across shunt (Typ 75mV) Power consumption : 2.0W Typical
Data Transfer Facility	Capable of data retrieval through serial port RS 485
Displayed Parameters	4 Channel kWh : 99999.9 4 Channel Power 4 Channel Current : 0 - 200.0 A DC Voltage :20.0 - 60.0 Shunt parameters : 1- 99.0 mV, 0 – 200 A DC Password : Numerical input through front panel switches

Instantaneous voltage	Displayed
Instantaneous current	Displayed
Instantaneous Power	Displayed
Energy in kWh	Displayed
RS485	1. 6ms switch over between transmit/receive mode 2. Min 5 ms delay to respond to query max 15 sec. 3. 9600 baud rate , No parity, 1 start , 1 stop bit 4. Modbus RTU communication with all data transmitted as 32 bit IEEE754 floating point data format 5. Galvanically Isolated RS485 port
Protection	60 Vdc in mV input 1000Vdc in V input
Electronic	Voltage Accuracy : 1.0 % Measured value Current Accuracy:1.0 % Measured value kWh Accuracy: 1.0 % Measured value
Memory	kWh : :All 4 Channels Last Displayed Value Shunt Parameters : All 4 Channels Last edited Value
Other	1. RTC with kWh data storage of 4 channels for past 50 days. 2. Stored Data can be viewed on screen or retrieved via RS485 port. 3.Simultaneous display of V, I 4. Setting of slave ID (1-9) possible 5. No overflow of data. Reading resumes from zero after 99999.9

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