Product description of LCD-Matrix-Display

Measure module for MPP-Solar and wind charge controller

Description:
The unit serves the purpose of measuring of accu current, accu voltage and accu power and energy for MPP-charge controller from SMR500 up to SMR2500 and windMax500 up to windMax2500.

The measured values are optically displayed via a 4 line matrix lcd module

Measurement range for SMR500:
Solar- Windgen.voltage (Ug)	0 to 200V
Accu charging current (Io)	0 to +25A (for higher powers, higher range)
Accu voltage (Uo)	0 to 100V
Accu power (Po)	0 to 1250W (for higher powers, higher range)
Kilowatt hours (Eo)	0 to 9999.99kWh
Repetition rate of measurement:	0.9s, line 4 displays Po and Eo alternating every 0.9s

LCD-Dot Matrix Module 4x20   4 lines
Height of digit:	3.72mm
Resolution of Ug	0.4V
Resolution of Uaccu:	0.2V
Resolution of Iaccu:	0.1A
Resolution of Paccu	0,02W
Resolution of Eo	0,01kWh

Display:
Solar-Windgen. Voltage	**Ug=xxx,xV**
Accu voltage	**Uo=xxx,xV**
Accu current	**Io=xxx,xA**
Accu power	**Po=xxxx,xxW**
Kilowatt hours	**kWh=xxx,xxkWh**

Current consumption:	circa 2,2mA
Measuring tolerance for voltage:	±2,5%
Measuring tolerance for current:	±10%
Operating temperature range:	0..+50°C

Optional:
RS232- Interface

Connector	D-Sub9
Baud rate	9.6kBaud/S

The transfer of data is tabular, with line wrap around
Solar-Windgen. Voltage	**Ug=xxx,xV**
Accu voltage	**Uo=xxx,xV**
Accu current	**Io=xxx,xA**
Accu power	**Po=xxxx,xxW**
Kilowatt hours	**kWh=xxx,xxkWh**

The data can be viewed on a laptop with a terminal programm.

Technical data are subject to change