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.