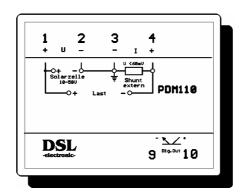
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Subject to change

DC (Active) Power Measuring Transducer PDM110 with S0 - Interface, 10 - 50V



Function

The Measuring Transducer PDM110 registers the active power of a DC voltage supply and sends the value to the output (which has potential separation) in the form of pulses per kWh. The input voltage at the DC load is also used to supply the measuring transducer with an auxiliary voltage. The load current is registered via an external shunt resistor and sent to the measuring transducer as a voltage. Real (analogue) multiplication is carried out with the 2 measuring voltages.

Application

The unit is used to register and monitor the power of a solar cell feeder. The "open collector" output of an optocoupler which provides the pulses for the kW counter is used as an output for the measuring transducer. The measuring transducer has low power consumption and self-heating. This gives the measuring transducer a high degree of reliability and a long service life.

Technical Data

Type DC (Active) Power Measuring Transducer PDM110 Construction Plastic housing on 35mm hat rail as per DIN EN 50022

Bayblend FR 1439/0240 modified ABS with burning protection UL 94 VO Material of housing

Dimension, Weight 55x68x110mm (WxHxD), ca. 0.2 kg

None between input voltages, 2500V Inputs - Puls Output Potential separation

Auxiliary voltage From measuring voltage

Input measuring voltage 10 - 50V

Input measuring current 0 - 60 mV DC with shunt acc. customer specification

appr. 100 ms Measuring delay

Pulse output from opto-coupler (open-coll.), 50V max. 4 – 10mA (On), < 0.1mA (Off), 40ms, Fmax. 12,5Hz Output signal

S0-Interface

Accuracy Calibration of final value 0.5%, linearity 2% Power consumption appr. 25mA at 24VDC falling to 6 mA at 250VDC

Protection Internal serial fuse 0.25AT / 1500

On period 100 %

for wire connection up to 2,5 mm² Connecting terminals

Housing IP 40 $\,$, Terminals IP 20 (VDE 0106T100/VBG4) -10 °C to +55°C, 95% Humidity Type of protection

Temperature range EN 60 742 (Safety transformers) Mains isolating

EN 50 178 (electrical units in power current installation) General Regulations

Radio interference EN 55 022/B

EN 61000 und EN V 50 140

Installation position Any position Free of maintenance Maintenance