UMG 96-S2 - energy measurement device

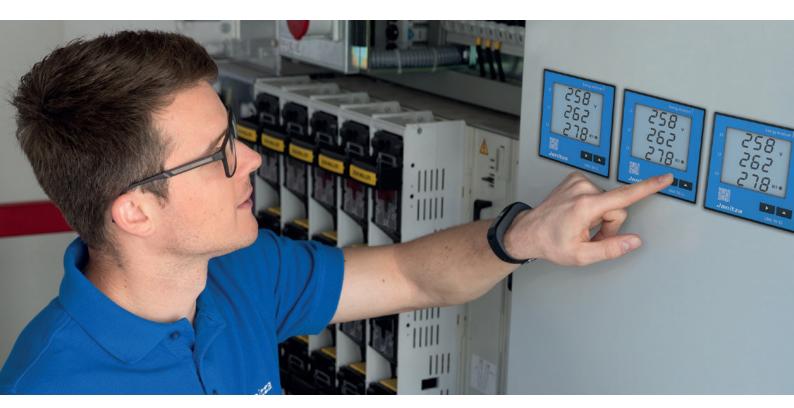


HIGH PRECISION MULTIPURPOSE DEVICE



UMG 96-S2

COST-EFFECTIVE ALL-ROUNDER



YOU INCREASE THE TRANSPARENCY OF YOUR ENERGY DATA – WITH THE UNIVERSAL MEASUREMENT DEVICE UMG 96-S2

Qualified statements about energy consumption and power quality can only be made through measurements that extend beyond the feed point. If you would like to locate disturbances or energy wasters, data must be recorded at multiple points in the network. The granularity (resolution) of the measurement is key.

The new UMG96-S2 is an ideal solution for this task. This energy measurement device stands out as a comprehensive

multipurpose device. It is suitable for measuring and controlling electrical variables and energy consumption as well as for monitoring the power quality parameters, such as harmonics. It is used in energy distribution systems, for example, for recording cost centers and monitoring thresholds. In addition, the device can also be used as a measurement value sensor for building management systems or a PLC.



AT A GLANCE

UNIVERSAL AREA OF APPLICATION

Suitable for TN and TT networks with a 1 and 5 A transformer connection

HIGH ACCURACY OF MEASUREMENT

Active energy with precision class 0.5S (.../5 A transformer)

TARIFF SWITCHING

Simple tariff conversion as additional building block for energy and cost transparency

LOW EFFORTS DURING INTEGRATION

An open communication channel via Modbus RTU offers direct access into higher level networks

LOW CONFIGURATION REQUIREMENTS

Straightforward use with low configuration requirements

COMPACT DESIGN

High performance in a compact 96 design with a low installation depth

COMPATIBILITY

Low integration requirements due to high compatibility for conventional transformers

VISUALIZATION AND DOCUMENTATION

Comprehensive options for data acquisition, visualizing and reporting through the GridVis®-Basic (network visualization software)

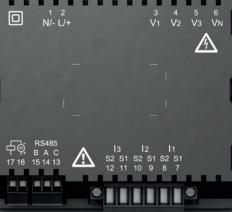
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UMG 96-S2

AUX. SUPPLY 90-265 V AC/90-250 V DC, 300 V CAT III

230 V / 400 V, 300 V CAT III

VOLTAGE MEASUREMENT INPUTS



CURRENT MEASURING INPUTS 1/5 A, 300 V CAT II

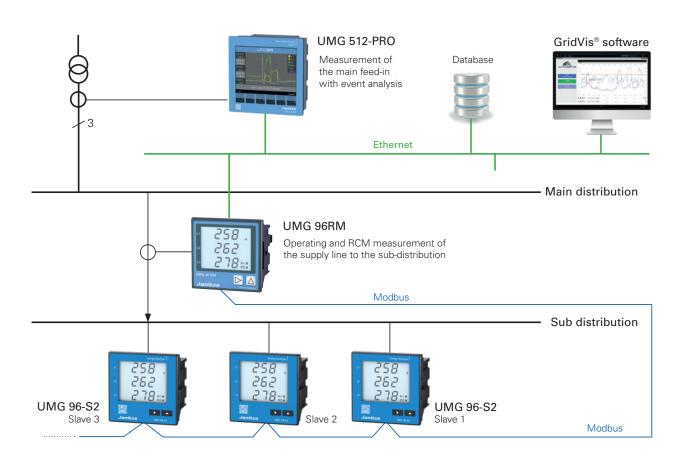
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PULSE OUTPUT Output of energy consumption as a S0 pulse

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INTERFACE RS485 with Modbus RTU

MASTER SLAVE PRINCIPLE



UMG 96-S2

90-265 V AC / 90-250 V DC, 300 V CAT III

Measurement precision for voltage, current	0.2%
Measurement precision for active energy (kWh,/5 A)	Class 0.55
Inputs and outputs	
Digital output	1
Pulse output	•
Effective value measurement – instantaneous values Current, voltage, frequency	s, e.g.: •
Active, reactive and apparent power	•
Power factor	•
Energy measurement Active, reactive and apparent power	•
Rate conversion	•
Acquisition of mean values, e.g.:	
Voltage, current / actual and maximum	•
Active, reactive and apparent power / actual and maximum	•
Frequency / actual and maximum	•
Measurement of the voltage quality Harmonics per order/current and voltage	1.–15.

Item no. 52.34.002

Measured voltage input	4 each	
Overvoltage category	300 V CAT III	
Measured range, voltage L-N, AC	0 300 Vrms	
(without transformer)		
Measured range, voltage L-L, AC	0 425 Vrms	
(without transformer)		
Frequency measuring range	45 65 Hz	
Sampling frequency per channel (50/60 Hz)	8 kHz	
Measurement in quadrants	4	
Networks	TN, TT	
Measured current input	3 each	
Rated current	1 / 5 A	
Overvoltage category	300 V CAT II	
Sampling frequency	8 kHz	
Mechanical properties		
Net weight (with attached connectors)	Approx. 250 g	
Device dimensions in mm (H x W x D)	96 x 96 x 48	
Protection class per EN 60529	Front IP40 /	
(with seal = IP54)	rear IP20	
Assembly per IEC EN 60999-1/DIN EN 50022	Front panel	

Ambient conditions

GridVis-Basic software

Assembly per IEC EN 60999-1/DIN EN 50022

Temperature range, Operation K55 (-10 +55°	°C)
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installation

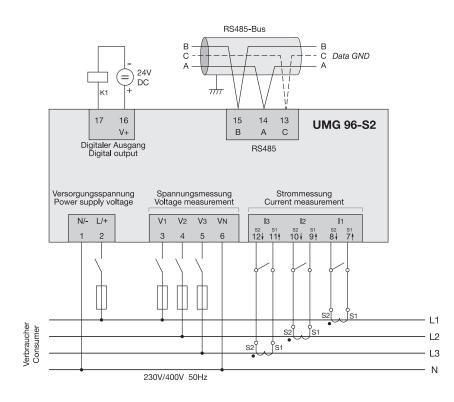
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Interface/protocol

RS485/Modbus RTU	•

For detailed technical information, please refer to the operating instructions and the Modbus address list at www.janitza.com

• = included



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Sales partner

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