

UNIVERSAL MEASURING INSTRUMENTS

Type	UMG 96-S2
Part number	5234002
Use in three-phase 4-conductor systems with grounded neutral conductor up to max.	230 / 400 V AC
Use in three-phase 3-conductor systems ungrounded up to max.	-
Supply voltage	90 – 265 V AC; 90 – 250 V DC
Three conductor / four conductor (L-N, L-L)	- / •
Quadrants	4
Sampling frequency 50/60 Hz	8 kHz
Meter reading cycle as per PTB-A 50.7	-
Effective value from periods (50/60 Hz)	16 / 16
Residual current inputs	-
Current measuring channels	3
Thermistor input	-
Harmonics current V / A	1 – 15.
Distortion factor THD-U / THD-I in %	•
Unbalance	-
Short / long-term flicker	-
Transients	-
Short-term interruptions	-
Accuracy V; A	0.2%; 0.2%
IEC 61000-4-30	-
Active energy class	0.5S (.../5 A)
Digital inputs	-
Digital / pulse output	1
Analog output	-
Memory for min. / max. values	•
Memory size / recording duration (according to factory setting)	-
Clock	-
Integrated logic	-
Web server / Email	-
APPs: Measured value monitor, EN 50160 & IEC 61000-2-4 Watchdog	-
Fault recorder function	-
Peak load optimisation	-
GridVis® software for energy management and network analysis	GridVis®-Essential
GridVis® items	1
RS-232	-
RS-485	•
USB	•
D-Sub 9 plug (Profibus)	-
M-Bus	-
Ethernet	-
Modbus RTU	•
Modbus gateway	•
Profibus DP V0	-
Modbus TCP/IP, Modbus RTU over Ethernet	-
SNMP	-
OPC UA	-
BACnet IP	-
Profinet	-

UMG 96-S2

Entry-level universal energy measurement device



UMG 96RM

Multifunctional power analyzer



UMG 96-PA & 96-PQ-L

Modularly expandable energy measurement device (MID)



UMG 96-PA (UL certified)

8 MB / approx. 3 months (MID+ load profile: approx. 24 months)

UMG 96-PQ-L (UL certified)

64 MB / partition A: approx. 45 months, part. B: approx. 20 months

RCM-EL module (UL certified)

Modular expansion for the UMG 96-PA & UMG 96-PQ-L



UMG 509-PRO (UL certified)

Multifunctional power quality analyzer



UMG 512-PRO (UL certified)

Certified power quality analyzer (Class A according to IEC 61000-4-30)



GridVis®

Our scalable GridVis® software brings your energy flows to life, helping you to analyze different parameters and discover potential energy savings. The software also offers various tools, such as data exports, standard-compliant reports or a report editor, which allow you to evaluate and document data. This makes GridVis®, which is available in 4 versions, perfect for setting up monitoring systems for energy management, power quality monitoring and residual current measurement.

GridVis® Essentials is a free entry-level version, offering all of the basic functions for setting up and configuring your measurement device. GridVis® Standard offers everything you need for ISO 50001 certified energy management, plus lots of other functions to simplify your life. GridVis® Expert offers the full range of functions from our power grid monitoring software.

GridVis® Cloud gives you access to a stand-alone energy monitoring portal for analyzing your energy consumption costs. Standard dashboards and pre-configured analysis options provide a quick overview of all of your company's consumption levels via PC or tablet, from anywhere, at anytime. Energy costs and carbon footprints can be calculated and displayed automatically.



OVERVIEW OF GridVis® EDITIONS



More info at: www.gridvis.com



SYSTEM FUNCTIONS	Essentials	Standard	Expert	Cloud
Device configuration	•	•	•	-
Server-based service	-	•	•	-
Software as a service (SaaS)	-	-	-	•
TLS encryption	-	•	•	•
User administration	-	•	•	•
Alarm management	-	-	•	-
Monitoring of the device communication	-	•	•	•
Database (MySQL, MSSQL)	-	•	•	-
Key figures	-	-	•	-
Automation	-	•	•	-
E-mail dispatch	-	-	•	-
Software-based measured value recording	-	•	•	•
VISUALIZATION				
Customized dashboards	-	•	•	-
Static dashboards	-	-	-	•
Sankey diagram	-	•	•	-
Hierarchy management	-	•	•	•
Customized list function	-	•	•	-
Energy & measured value analysis	•	•	•	-
Event & transient analysis	•	•	•	-
REPORTS & EXPORTS				
Basic package	•	•	•	-
RCM (Residual Current Monitoring)	•	•	•	-
Power Quality	•	•	•	-
Energy monitoring	-	•	•	•
Energy management	-	•	•	-
Customized reports	-	-	•	-
CONNECTIVITY				
Data import (CSV & MSCONS)	-	•	•	-
Data export (MSCONS)	-	-	•	-
REST API	-	•	•	-
OPC UA client	-	-	•	-
Modbus devices from third-party suppliers	-	-	•	•



SHORT PRODUCT OVERVIEW

Item no.: 33.03.607 • Doc. no.: 2.500.034.9F • Version 03/2023 • Subject to technical alterations.

