ARTEMES

arte[s] me[nsioni]s - The Art of Measuring
Power & Energy

Power Analyser
AM-15-PLOG

Power Analyser
AM-15-PLOG

- PQ + PFR + PM + DFR

- 16 bit resolution

- 20 ksamples/sec. events recorder and data-streaming

- 4 voltages and 5 currents

- measuring and evaluation via web browser

- ARTEMES CLOUD interface

- display optional

16-bit resolution | energy measurement | power quality analysis

The ARTEMES Power Analyser AM-15-PLOG is a powerful 16-bit resolution device that combines the require-ments of energy measurement and power quality analysis with the very latest data transmission technology. In addition to the possibility of using web interface such as smartphone or PC, all post-processing activities via the web - as a browser application directly on the device, on a special server or the ARTEMES CLOUD - are available as well.

Thermal energy analysis for e.g. ISO 50001 reports are included in the basic version. The PQ extension option also provides power quality analysis in accordance with the EN 50160 standard.

Energy - ISO 50001
Power Quality EN 50160, IEC 61000-2-4
IEC 61000-4-30 Class A
web technology for operation and evaluation via web browser

Measurement Functions

Overview - Online

representation of the data over time,
as a vector diagram and as numerical values

recording mode or simulation mode,
RMS, AVG, min, max (10 period values,
adjustable)

RMS, AVG (period values, adjustable

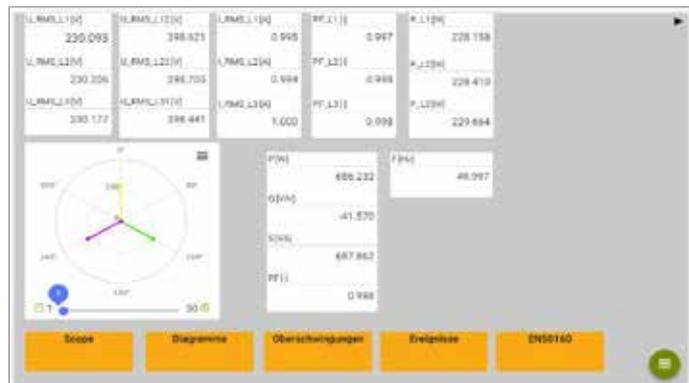overlapping and duration)

U, I, P, Q, S, D, PF, unbalance

flicker
IEC 61000-4-15: 2012 Class F1

frequency

symmetrical components
IEC 61000-4-30: 2008 Class A

Oscilloscope - Real-Time

real-time oscilloscope on the web browser

voltage and current

selectable scaling left or right

FFT - Real-Time

voltage, current, power, phase angle

phase and phase voltages

bar chart representation and numerical values

IEC 61000-4-7: 2009 Class 1

interharmonics

Dynamic Reports

diagrams of any channels

ready-made templates

reduction and enlargement possible

Static Reports

report generator for defining reports or ready-made reports

EN 50160: 2011, Energy (ISO 50001)

IEC 61000-2-4: 2002

any diagrams possible

event statistics

Events Recorder

transient recordings (TFR)

fault records (DFR)

event records EN 50160: 2011
IEC 61000-4-30: 2008

scaling: possibilities to enlarge or reduce

statistical ratings: DisDip/Unipede,
CBEMA, events according to EN 50160: 2011

Technical Data

		AM-15-PLOG
voltage inputs		4
	range	+/- 400V / 800V
	accuracy (on value, 5-100% of range)	0,1 %
current inputs		5
	clamp 5A	set of 3 / set of 5
	order number	AM-15-3CL5 / AM-15-5CL5
	range	5 A
	accuracy	1 %
	Rogowski coil	set of 3 / set of 5
	order number	AM-15-3Rog10k / AM-15-5Rog10
	range	100 / 1.000 / 10.000 A
	accuracy	1 %
	other clamps (www.artemes.org)	on request
measurement parameters	resolution	16 bit
	sampling rate	up to 10 kSamples/sec. per channel
	bandwidth	3 kHz
measurement values	phase voltages, neutral voltage	✓
	line voltages	✓
	phase currents, neutral current	✓
evaluation online	web interface	✓
	recorder - diagram and actual values	✓
	Scope, FFT	✓
	FFT IEC 61000-4-7	✓
data processing	flexible report generator on web	✓
	EN 50160	✓
	IEC 61000-2-4 class 1,2,3	✓
	ISO 50001 energy report	✓
data storage	internal SD	32 GB
	ARTE**M**ES server	licence included (max 3 measurement clients)
	ARTE**M**ES CLOUD	option: AS-CLOUD
communication ports	USB 3.0	1
	LAN	1
	WLAN / GSM	Option AM-15-Route
EMC	IEC 61326-1 industry	✓
	IEC 61000-4-4 surge, IEC 61000-4-5 burst	4 kV
	isolation (AC, 1 min)	2 kV
safety	IEC 61010-1	✓
dimensions	width x depth x height	265 x 210 x 70 mm
power supply	AC - V/f	85-264 VAC / 47-63 Hz
power consumption	VA	ca 10 VA
weight	kg	ca 1 kg
temperature range	operation	-20°C to +60°C
	storing	-20°C to +80°C

Order Number

Product Name		Product Description
	AM-15-PLOG	AM-15-Plog power quality analyzer and recorder for the field, IP67, 4 voltages, 5 currents, WLAN, web interface
	AM-15-PLPG-D	AM-15-Plog power quality analyzer and recorder for the field, IP67, 4 voltages, 5 currents, WLAN, web interface, incl. touchscreen

Accessory

ARTEMES CLOUD
AM-CLOUD
ARTEMES CLOUD for safe data storage and worldwide access via the web

external antenna for AM-15-Route
AM-15-ANT-GSM / AM-15-ANT-WLAN
external antenna with magnetic bottom

router
AM-15-Route
internal router for GSM and WLAN connection of instruments type AM-15-PLOG

current clamp set, 3 clamps
AM-15-3CL5
AM-15-current clamp set, 3 clamps of 5A type, typical for secondary measurements

transport bag
AM-15-TB
transport bag for AM-15

current clamp set, 5 clamps
AM-15-5CL5
AM-15-current clamp set, 5 clamps of 5A type, typical for secondary measurements

voltage lead set
AM-15-CBL-U1PH
voltage lead set for single-phase connection

Rogowski coil set, 3 pieces
AM-15-3Rog10k
AM-15-Rogowski coil set, 3 coils of type 10kA/1kA/100A/10A, 45cm length

voltage lead set
AM-15-CBL-U2PH
voltage lead set for two-phase connection (symbolic photo)

Rogowski coil set, 5 pieces
AM-15-5Rog10k
AM-15-Rogowski coil set, 5 coils of type 10kA/1kA/100A/10A, 45cm length

voltage lead set
AM-15-CBL-USTAR
voltage lead set for star connection

external display
AM-15-external-Display
external wireless bluetooth operation terminal for AM-15 (requires option AM-15-Route in the AM-15-PLOG)

voltage lead set
AM-15-CBL-UDELTA
voltage lead set for delta connection

For further information, please, visit our website www.artemes.org.

Measurements for Power Applications

System Integration and Monitoring Solution

energy management systems
for commerce and industry

convenient generation
of reports

load profile measurings and
multi-channel power analyses

data compression and data base solutions
for easy and individual use

ARTEMES

www.artemes.org

power quality analyses according
to definded standards

cloud solutions for continuous and
distributed measurement tasks

qualification of power plants
with renewables

automated test sequences
for repeated testings

software and hardware solutions
for individual test bench systems

ARTE**M**ES GmbH | sales@artemes.org | www.artemes.org

AM99-001-00080