RMS VOLTMETERS/AMMETERS

PECA7/DIVA7

ARDETEM SFERE



Type

The analysers *PECA7/DIVA7* are especially designed for the measurement, the control and the display of the voltages and the currents from AC electrical networks.

Easy programming accesible on front face or by PC via the software SuperVISION (ARDETEM) or MCvision (SFERE)

Display

· Graphical LCD with rear-lighting.

Environment

- Operating temperature: 0°C to +55°C.
- Storage temperature: -25°C to +70°C.
- **(** Marking



Functions

They accept as input by programming Current: 1A and 5A AC Voltage: 100VLN/173VLL and 330VLN/600VLL

- Quick cycle time: 40ms
- Universal (switching) power supply

Options

- RS485 Modbus/Jbus output
- 2 relay outputs, programmable by the user as alarm setpoint

General data

Protection: Housing / terminals: IP 20

IP40 front face protection (IP65 optional)

Housing: Self-extinguishing case of black UL 94 V1

polycarbonate

Connectors plug-off connectors on the rear side for screwed

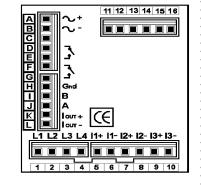
connectings (2.5mm², flexible or rigid)

DEFG Relay outputs (optional)

HIJ Digital data link 485 (optional)

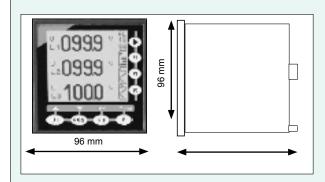
1 2 3 4 Voltage measures 5 6 7 8 9 10 Current measures

A B Auxiliary power supply



Dimensions

Housing: 96 x 96 x 108 mm (with terminals)



Mounting : on panel; cut out 92 x 92 mm

Tightening: by 4 screwed fastening hooks

Weight: 400 g



Technical

features

inputs

Voltage 2 programmable ranges:

Un=100VLN/173VLL and 330VLN/600VLL AC

• **Current** 2 programmable ranges: 1 & 5A (In=1.2A & In=6A)

Measurable overrange 1.2 In; 1.2 Un

Overload permanent: 750 V, 2 In

during10 s: 1000 V, 10 In

Power draw voltage input: 1 M Ω resistors current input: < 0.2 VA

Test voltage 2 kV / 50 Hz / 1 min.

Frequency 10...50...65 Hz (other frequencies: consult with us)

Types of networks single or 3-phase balanced/unbalanced

with or without neutral

options

RS485 output

Type 2 wire (galvanic partition / inputs: 2 KV)

Speed 4800 / 9600 / 19200 bauds

Protocole Modbus / Jbus RTU 8 bits programmable parity
Format of the data 16 bits integer (table of the units) or 32 bits with

fixed units and decimal points.

• Relay outputs (option R)

Type of contact on potential free contact (galvanic partition: 2.5KV)

output 1NO

Rated load 5A - 250 VAC

- SETPOINTS OUTPUT

Setting of the setpoints : 0 to 100% of the meas. range (programmable) Switching hysteresis : 0 to 15% of the setpoint (programmable)

Switching hysteresis : 0 to 15% of the setpoint (programm delay : 0 to 15s (programmable)

supply

Universal power supply 20...270 Vac / 20...300 Vdc

Power draw 6 VA max. in AC, 3,5W max. in DC

measure

9 measurable parameters

Accuracy rating Voltages, currents: 0.2 (IEC688-1)

Thermal drifts < 200ppm

Measuring method Fast simultaneous sampling of the 3

3 voltages and the 3 currents. Digital calculation on 32 bits. Measurement of deformed signals, pass band 2.5KHz

Display refreshing each second.

Digital filtering programmable on several levels

Cycle time 40ms (for all network types)

wiring

With detailed manual supplied in English.

Coding

Types:

ARDETEM reference: PECA7 SFERE reference: DIVA7

Options

2R 2 relay outputs

RS485 MODBUS/JBUS

3 voltages
3 currents

I 3 currents

Order example: For a PECA7 with RS485 outputs, 2 (setpoint) relay outputs, measurement of the 3 voltages request the reference:

PECA7/DIVA7 RNU

measurement of the 3 voltages and the 3 currents:

PECA7/DIVA7 RNUI

This appliance is designed for industrial applications. It has to be installed in an electrical cabinet, or equivalent.

ARDETEM SFERE

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your representative	

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