

Making energy visible

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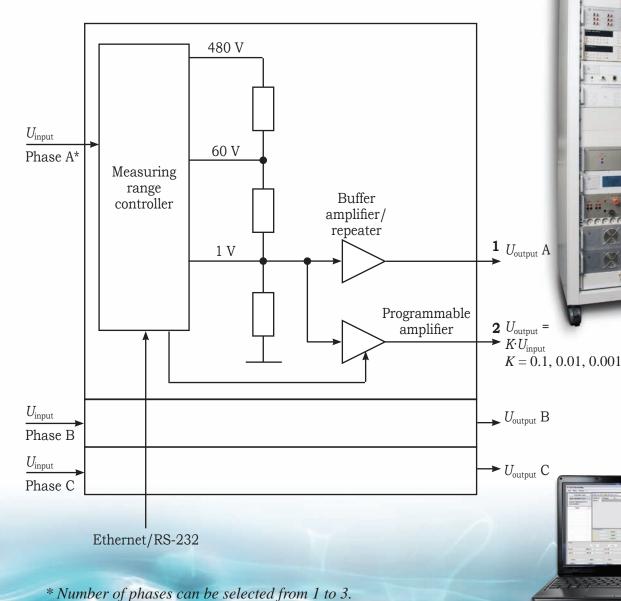
# Reference eletronic voltage divider

## • EVD-500 •

### **Purpose and sphere of application**

EVD-500 converts the AC voltage on its input into the output voltage with a known division factor. It can be applied as part of test and calibration setups within metrological and industrial test labs, certification bodies etc.

### **Design and operation principle**



SW Energoetalon

EVD-500 can be used as part of:
1. A standard of AC power Power Calibration Setup PCS-ME 1.0
2. Systems for calibration of digital CTs, e.g. DCS-ME 61850
3. Systems for calibration of electronic VTs with analogue outputs

### **Design Controls, connectors and terminals**

	EVD-500				
A	В	С			
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RS232	Ethernet	9 -	

Power 220 V, 50 Hz

### **Accuracy specifications**

### 1. In the mode of testing electrical energy meters and voltage or power converters

Voltage measuring range	Measurement error within 40 70 Hz		Measurement error within 0 1000 Hz	
	Ratio	Angle	Ratio	Angle
16 480 V	0.005 %	0.2 min	0.02 %	0.2·(f/50) min

#### 2. In the mode of testing electronic voltage transformers

Rated	Rated output voltage	Measurement error	
input voltage, V	of the programmable amplifier, mV*	Ratio	Angle
60	30 mV 8 V	0.01 %	0.5 min

<sup>\*</sup> Rated voltages are selectable from 1.625 to 6.5 V as stated in IEC 60044-7–2010 (1.625 – 2 – 3.25 – 4 – 6.5 V.)

### **Scope of supply**

- 1 Electronic voltage divider EVD-500
- 2 Set of input and output voltage cables
- 3 Set of communication cables
- 4 Software (automatic control of measuring ranges)
- 5 User manual
- 6 Package