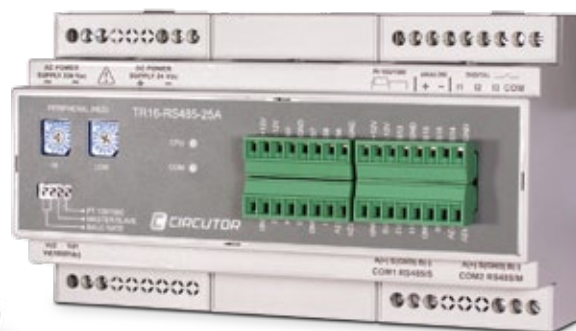
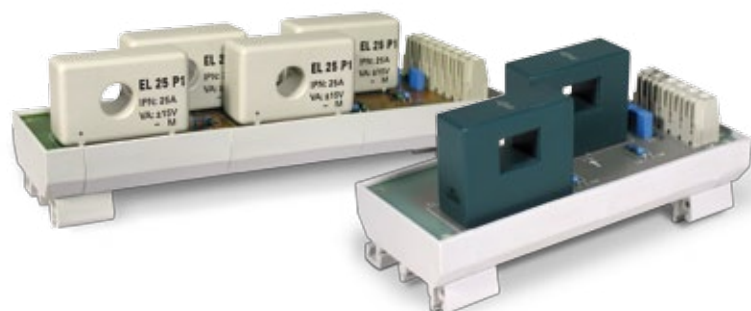


# TR16

Multi-channel voltage and DC analyzer for photovoltaic strings



## Description

**TR16-RS-485** is an advanced version of the model **TR8** which, besides the main features of current measurement, has other useful features for large-scale photovoltaic installations such as the possibility of atmospheric temperature measurement for each area of the installation.

## Application

- Application of photovoltaic string control, up to 16 strings.

## Características

Power Supply	AC	DC
Nominal voltage	230 V ac $\approx$	24 Vdc =
Power supply tolerance	$\pm 20\%$	$\pm 10\%$
Frequency	50 Hz	-
Equipment consumption without transformers	2 V·A	2 W
Equipment consumption with 16 sensors (without load)	14 V·A	8 W
Equipment consumption with 16 sensors (with load)	24 V·A	14 W
<b>Operating conditions</b>		
Operating temperature	-10 ... 65 °C	
Relative humidity	5...95 RH without condensation	
Maximum operating height	2,000 metres	
Protection	IP20	
<b>TR16-RS485 accuracy</b>		
Current measurement (without current sensor)	$\pm 0.5\%$	
Minimum current threshold	350 mA	
Voltage measurement	$\pm 1\%$	
<b>Temperature input accuracy</b>		
Pt100 / Pt1000 temperature probe	$\pm 3\text{ }^{\circ}\text{C}$	
<b>Analogue input accuracy</b>		
Input accuracy 0...20 mA	$\pm 0.5\%$	
Input impedance	165 $\Omega$	
Resolution in dots	1024 dots	
Converter resolution	10 bits	
<b>Safety</b>		
Category III – 300 V AC (EN61010)		
Double-insulated electric shock protection class II		

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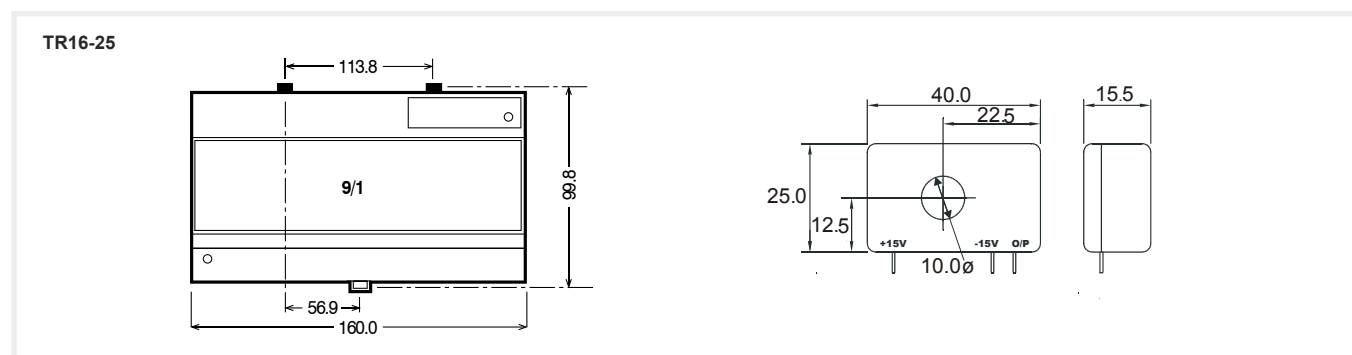
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## References

Current	Outputs	Communications	Description	Type	Code
<b>Equipment, up to 25 A</b>					
25 A	16	RS-485 Modbus/RTU	16 channels, 25 A <sub>DC</sub> Connection of up to 2 <b>M/TR-25Ax4</b> (8 channels) 1000 V <sub>DC</sub> voltage meter. Three voltage-free digital inputs 1 voltage input of 1000 V <sub>DC</sub> 1 temperature probe input Pt100 or Pt1000 (selectable) 1 analogue input, type 0 – 20 mA Power supply voltage 230 V <sub>AC</sub> or 24 V <sub>DC</sub>	<b>TR16-RS-485-25</b>	<b>M55300</b>
<b>Measurement modules</b>					
2 x 25 A circuits				<b>M/TR-25 x2</b>	<b>M54606</b>
4 circuits 25 A				<b>M/TR-25 x4</b>	<b>M54602</b>

## Dimensions



## Connections

