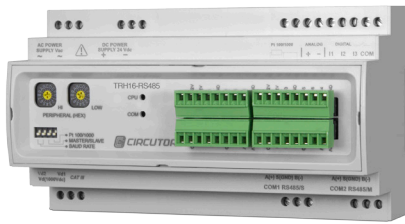
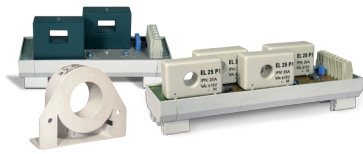


# TRH16

## Multi-channel 1500Vdc DC voltage and current analyzer for photovoltaic strings



Compatible with all modules of the **M/TR** transformer range.



### Description

The **TRH16** is an analyzer that is used to measure up to 16 photovoltaic strings in direct current up to 1,500 V. Its features make it the ideal and most versatile unit for measuring different levels of current, depending on the sensor connected to each one of its inputs. The unit features a 0 to 20 mA analogue input and an input for connecting the **PT100** or **PT1000** temperature sensor, allowing environmental variables to be measured.

### Application

- Solar photovoltaic string measurement application, used to measure up to sixteen direct-current generation strings and a reference voltage of up to 1,500 V.

### Technical features

<b>Power circuit</b>	Rated voltage	230 Vac / 24 Vdc power supply
	Tolerance	± 20% AC / ± 10%
	Frequency	50 Hz AC
	Consumption of the unit without transformers	8 mA / 1.84 VA AC 70 mA DC
	Consumption of the unit with 8 sensors (no-load)	32 mA / 7.36 VA AC 270 mA DC
	Consumption of the unit with 8 sensors (current)	32 mA / 7.36 VA AC 270 mA DC
<b>Accuracy</b>	Linearity	± 0.1%
	Total	± 0.5% $I_n$
	Resolution	± 0.075% $I_n$
	Offset	0.075% $I_n$
	Measurement margin	2,5 .... 100% $I_n$
<b>Transformer accuracy</b>	Linearity (excluding offset)	± 0.5%
	Offset 25 °C	± 10 mV at $I_n=0$
	Offset drift / T	± 1 mV / °C
	Thermal drift of the gain	± 0.05% / °C
	<b>Digital inputs</b>	Number of inputs
Type		Optoisolated voltage-free (dry contact)
Maximum activation current		50 mA
<b>Mechanical features</b>	Operating temperature	-10 °C...+65 °C
	Relative humidity	5%...95% (without condensation)
	Protection degree	IP 20
<b>Safety</b>	Category III – 300 Vac ( <b>EN 61010</b> ) Double-insulated electric shock protection class II	
<b>Standards</b>	UL Listed, <b>CE certification</b>	

# TRH16

## Multi-channel DC voltage and current analyzer for photovoltaic strings

### References

Type	Description	Current
TRH16-485	Measurement of up to 16 configurable channels Measurement of voltages of up to 1,500 V Optional connection of transformers with different primaries	Configurable

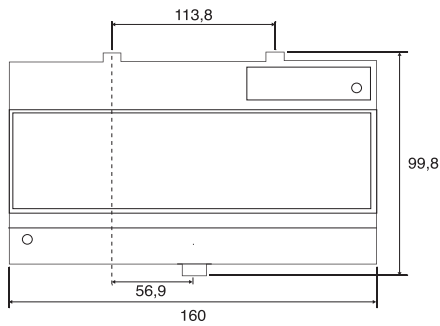
  

Type	Description
M/TR-25A x2	Two-transformer module, up to 25 A
M/TR-25A x4	Four-transformer module, up to 25 A
M/TR-100A	Transformer, up to 100 A
M/TR-200A	Transformer, up to 200 A

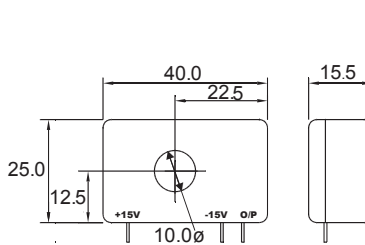
\* Accessories - hall-effect sensors above are complements listed in file UL.

### Dimensions

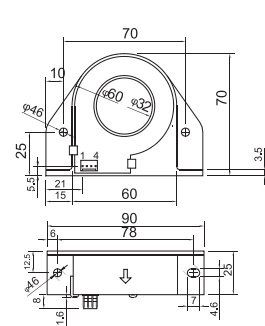
TRH16



M/TR-25A



M/TR-100/200A



### Connections

