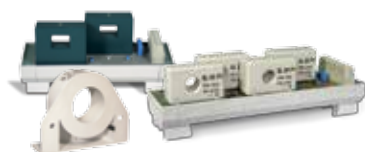


TR8

Multi-channel DC voltage and current analyzer for photovoltaic strings



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



Description

It is extremely difficult to certify that a photovoltaic plant is at its peak performance without having control over the primary power generation sources that would certify it. **TR8** has been designed specifically to control strings in photovoltaic plants; it checks the level of current generated in the various groups in real time and, therefore, checks the current flowing through the voltage and current sensors connected to the unit.

Applications

- Solar photovoltaic string monitoring application, used to measure up to 8 direct-current generation strings and a reference voltage of up to 1,000 V.

Technical features

Power circuit	Rated voltage	230 Vac / 24 Vdc power supply
	Tolerance	± 30% AC / ± 10% DC
	Frequency	50 Hz AC
	Consumption of the unit without transformers	8 mA / 1.84 VA AC 70 mA
	Consumption of the unit with 8 sensors (no-load)	32 mA / 7.36 VA AC 270 mA
	Consumption of the unit with 8 sensors (current)	32 mA / 7.36 VA AC 270 mA
	I_{rush} AC (3 ms)	3,5 A
	I_{rush} CC (1 ms)	15 A
	Accuracy	
	Linearity	± 0.1%
Transformer accuracy	Total	± 0.5% I_n
	Resolution	± 0.075% I_n
	Offset	0.075% I_n
	Measurement margin	2,5 100% I_n
	Voltage	1%
Digital inputs	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
Mechanical features	Number of inputs	8
	Type	Optoisolated voltage-free (dry contact)
	Maximum activation current	50 mA
Safety	Operating temperature	-10 °C...+ 65 °C
	Relative humidity	5%...95% (without condensation)
	Protection degree	IP 20
Standards	Category III – 300 Vac (EN 61010)	
	Double-insulated electric shock protection class II	
	CE certification UL certification (see attached codes) UR certification (Canada) (see attached codes)	