



TS200 MT MT VOLTAGE ABSENCE DETECTOR

The medium voltage absence detector (MT detector) is a product of the low-cost detector class developed by Tecsyst. It works in medium voltage networks, up to 34.5kV, reporting events of absence or presence of current, voltage and permanent failure in the circuit. The MT operates in an independent mode(it can be applied in single-phase, two-phase or three-phase networks)

The device sends instant messages using Sigfox® connectivity technology to the Habitat platform, the data aggregator software developed by Tecsyst with a database and information conversion into DNP3 protocol.

The system is powered by solar panel-loaded ultracapacitors, which guarantee autonomy of 44 hours in normal mode and an additional 24 hours in economy mode, totaling 68 hours. no sem a incidência de raios solares.

TECHNICAL SPECIFICATIONS

MT Voltage Absence Detector - TS200

FEATURES		ELECTRONICS	
Voltage sensing	Performs voltage measurement in the distribution network, reporting values up to 34.5kV.	Operating voltage	3,3 V
Voltage withstands	120kV	Ultracapacitor voltage	0,9 to 2,4 Volts
Current sensing	Current reading is carried out in the range of 0 – 100 A.	Average energy consumption (Normal/Economy Mode)	11/ 2mWh
Current withstands	20kA	Generated power on the solar panel	700mW
Frequency of Electrical Network	60Hz/50Hz	Maximum time for full charge of ultracapacitors	120 minutos (at 1000m/m2)
Autonomy	The set uses 2 ultracapacitors as a power source charged by a photovoltaic panel. The autonomy is 44 hours in normal mode and 24 hours in economy mode, totaling 68 hours without the incidence of sunlight.	ADC sampling rate	1,92kHz (32 samples/network cycle)
Operating temperature	0 to 65 °C	Voltage measurement resolution	500 V
Communication	Sigfox®	Current measurement resolution	1 A
Supported Regio	RC1/ RC2/ RC4/ RC5/ RC6/ RC7		
Time to send data	When detecting an event, the period of processing and sending the packet can last up to 2 seconds (without considering the latency of the Sigfox server). In addition, the equipment sends a keep-alive message every 12 hours.		
LED indicating permanent failure	When identifying a permanent fault, a LED, located at the base of the equipment, goes into flashing mode.		

APPLICATION

