



TS300S KOALA

DATA SHEET
TS300S FUSE OPENING DETECTOR

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It is a detector that opens self-disconnecting fuse disconnectors (MN 241 and 242 for example) thanks to its calibrated accelerometer to consider it as a closed and open circuit.

This device communicates via the Sigfox IoT network, which is having a constant growth of coverage in the main countries of the world, growth that adapts to the needs of logistics companies, oil operators, high value-added agricultural productions, property security companies, providers of energy, gas and water public services, among other industrial applications and Smart city. It can also be supplied with LoraWAN communication.

Koalas send keepalive messages every 24 hours and immediately when a fuse is opened or closed.



Thanks to communicating through an LPWAN network like Sigfox or Lora, your battery will be able to have a useful life of more than 10 years without any maintenance and without losing its high degree of insulation/watertightness IP65

The devices are easy to install without the need for a power cut, with conventional tools for the company's trained crews that maintain the network and are online 24x7 regardless of the load on the monitored line.

This device can be configured for various vertical plane motion detection applications that are useful in different sectors both in power distribution (single-phase reclosers, disconnectors under load or inspection chamber covers) and industrial.

GENERAL SPECIFICATIONS	
FEATURES	DESCRIPTION
Brand	TECSYS
Model	TS300S(KOALA)
Origin	Brasil
Type	Real-time ejection fuse opening detector.
Maximum Design Voltage	34,5 KV.
Rated capacity	650 A.
Frequency	50Hz // 60 Hz.
Short circuit current max.	20kA / 170ms.
Power Supply	Internal battery – Autonomous.
Autonomy	10 years.
Installation phase identification	The phase where it is installed is set by software.
Internal sensors	Position, Current Detection, Temperature, Battery Level.
Geo-detection	Location visualization on Platform / WHO.
Local Fault Indicators	Refractory tape for night vision of the cartridge position.
Reset Type	Automatic (no jobs or tools required for reset).
Programming for Fault Detection	Factory programming of armour/close and disarm/open angles.
Media	Red SIGFOX o LoraWAN (LP WAN).
Communication Interface (Unlicensed Frequency Usage)	902.2 MHz (RC2 Br, Mx, USA, Cnd, Pto. Rco) // 920.8 MHz (RC4 rest of America), and others customized for LoraWAN.
Power	22,5 dBm.
Connectivity distance between Gateway and detectors	30 km thanks to its integrated Class 0 module (depending on relief and interference).
Maximum connectivity of equipment by base radio.	Estimated 1,400,000 devices per base radio / Each base radio has a capacity of 300 msg/second. (Valid for Sigfox network).
Signals to SCADA (DNP3 // IEC 60870-5-104)	Up to 4 digital and 6 analog signals.
Operations Counter	Available on Plataforma Habitat.
Database	On-premise or SaaS web access.
Assembly	It is fastened with its clamp on conventional fuse holder cartridges, without the need to cut off the supply using a by-pass and pole.
Use	Weathering in LV and MV power grids.
Degree of protection	IP65.
Operating Temperature / Humidity	-15 °C a +65 °C / 100%
Isolation	Polymer.
Fuse base installation	In conventional cartridge for any manufacturer
Wind resistance	Up to 150Km/h
Testing/Trials	ABNT NBR 7282:2011. ABNT NBR IEC 60529 NBR 5310, ASTM G155:2013.
Manufacturer Certification	ISO 9001.
TECHNICAL GUARANTEE	1 year.

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