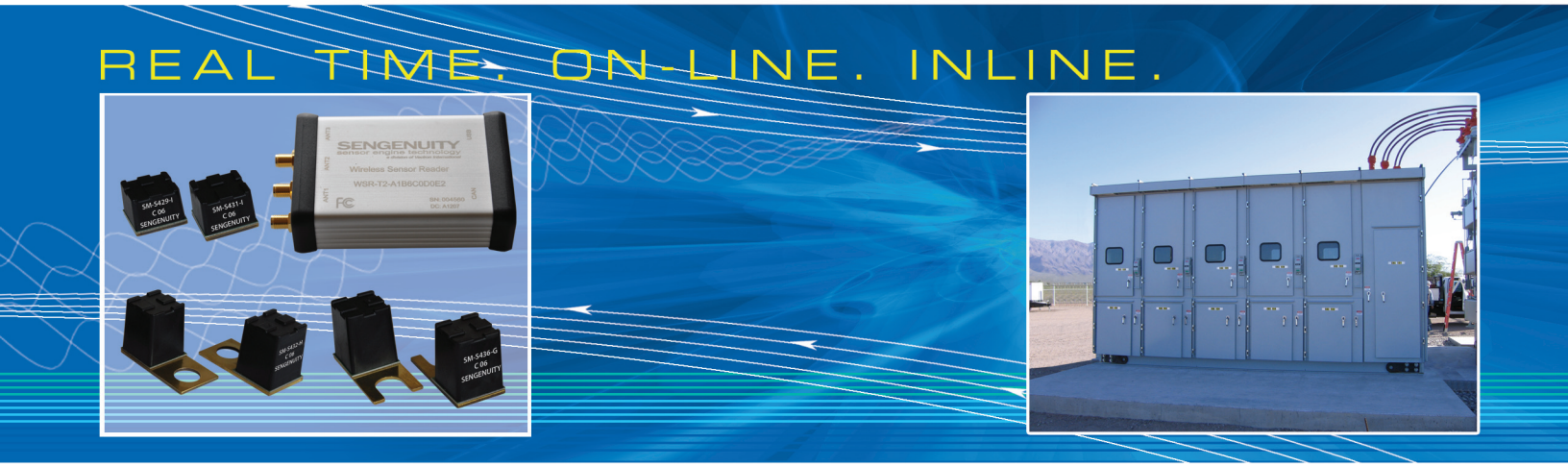
SENGENUITY
Sensor Engines by Vectron International

Datasheet

Wireless Temperature Monitoring System for High and Middle Voltage Switchgear



Description

The SenGenuity Wireless Temperature Monitoring System provides a passive, non-invasive and low cost temperature measurement solution that is ideally suited for harsh, hazardous and inaccessible locations; as well as the "hot spot" of power switchgears ranging from high voltage to low voltage systems.

SenGenuity's wireless multipoint system is capable of tracking up to six SAW based temperature sensors using a single interrogation antenna, and up to eighteen sensors using 3 interrogation antennas.

Key Features and Attributes

- Passive Wireless Temperature Sensor (Surface Acoustic Wave based)
- Temperature range: -20°C to 120°C
- Six temperature sensors per antenna output
- Reading distance: 3 meters [1]
- Multi-Communication Protocol: RS485, RS232, Analog-Output, MODBUS
- User friendly, simple to use interface and data logging
- Continuously monitoring switchgear temperature
- Environmentally friendly
- Real-Time thermal monitoring
- Monitor inaccessible location

System Specifications

Specification	Typical Values
Accuracy [°C]	± 2
Wireless Reading Distance [3,4] [meter [1]]	3
Communication Protocol	RS485, RS232, Analog Output, CAN, MODBUS

Parameters	Typical Values	
	SAW Sensor Module	Reader Unit
Operating Temperature Range	-20°C to 120°C	-20°C to 70°C
External Power Supply [V]	0	+5, +24
Power Consumption [2] [W]	0	1.5
Dimensions [mmxmmxmm [2]]	Max (54mm x 35mm x 29mm)	86mm x 57mm x 26mm [2]

1. Depending on RF environment and antenna.
2. Depending on Reader type – please see the reader datasheet under: http://www.sengenuity.com/prods_spec_sheets.html
3. FCC/EC regulation: http://www.sengenuity.com/wsr_emc_compliance_advisory.pdf
4. Free space measurement

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