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24/7 ASSET MONITORING SOLUTION ENERGY

HTR02 SPECIFICATIONS

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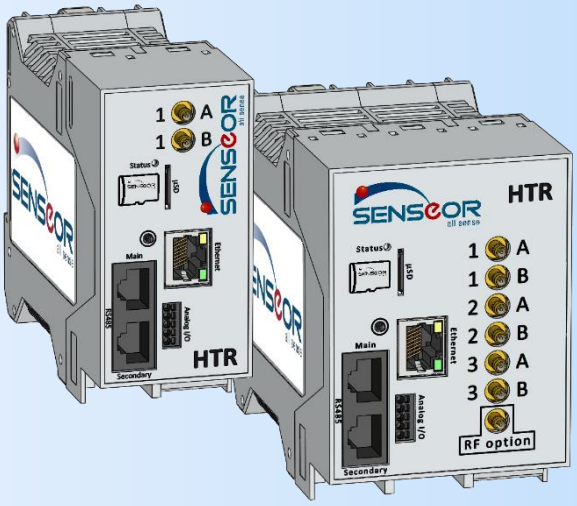


Regional distributors

Visit www.senseor.com for the latest distribution locations.

ISO 9001:2015
BUREAU VERITAS
Certification

APPLICATION

This datasheet describes the specifications of the *HTR02 Radio-Frequency transceiver*. Configured with SAW sensors and partial discharge probe antennas, this last generation of transceiver is designed for the *SENSeOR* temperature and partial discharge monitoring system.

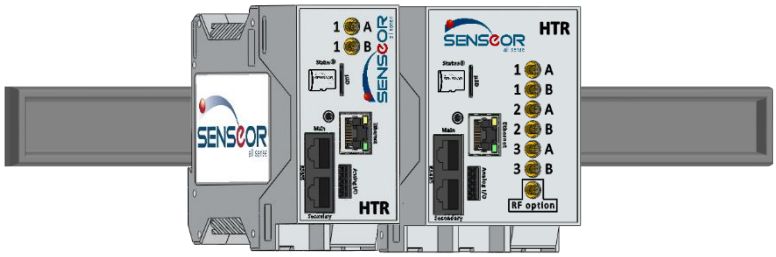
This transceiver has been designed specifically to measure inside a switchgear cubicle and operation under high current and voltage.

This datasheet covers the following products:

- **HTR02-2AWS**: Temperature monitoring using one antenna pair.
- **HTR02-6AWS**: Temperature monitoring using up to three antenna pairs.
- **HTR02-6AWS-PDD**: Temperature and partial discharge monitoring using up to three antenna pairs.

FIXATION MODES

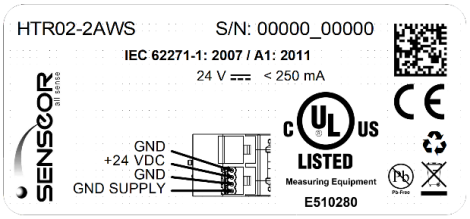
The transceiver can be mounted on standard 35 mm DIN rail.



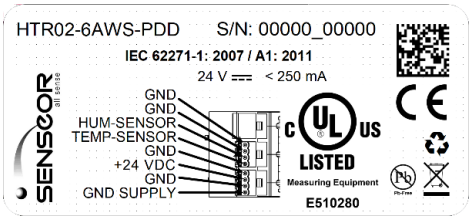
SPECIFICATIONS

HTR02 TRANSCEIVER	
Product references	HTR02-2AWS (temperature monitoring only) HTR02-6AWS (temperature monitoring only) HTR02-6AWS-PDD (temperature and partial discharge monitoring)
Number of antenna pairs	1 for HTR02-2AWS, 3 for HTR02-6AWS(-PDD)
RF connectors	Male SMB
Number of configurable SAW sensors	6 for HTR02-2AWS, 18 for HTR02-6AWS(-PDD)
Number of configurable probe antennas	Up to 3 (only for HTR02-6AWS-PDD)
Configurable analog inputs/outputs	1 input (4-20 mA) 1 output (4-20 mA and 0-10 V)
Configurable digital output	1 relay activation (0-24 VDC – 200 mA)
Communication interfaces	RS485 (Modbus-RTU) on 2 female RJ45 connectors Ethernet (Modbus-TCP, SENSeOR proprietary for configuration) on female RJ45 connector (10 Mb)
Remote configuration	Using *SENSeOR Configuration Tool* (firmware upgradable)
External probes	Ambient temperature and humidity BHT II – D/I device
Data storage	µSD card reader
Operating frequency range	From 430 to 450 MHz (depending on sensor reference)
Operating temperature range	From -20 to +70°C
Display	Multicolor status led
Alarm acknowledgement	Pushbutton
Ingress protection code	IP20
Operating power	24 VDC (need an isolated supply) 200 mA for HTR02-2AWS 250 mA for HTR02-6AWS(-PDD)
Dimensions	45 x 99 x 117 mm for HTR02-2AWS 68 x 99 x 117 mm for HTR02-6AWS(-PDD)
Weight	170 g for HTR02-2AWS, 270 g for HTR02-6AWS(-PDD)
Fixation mode	35 mm DIN rail
Certifications	RoHS 2011/65/EU and 2015/863/EU IEC 62271-1: Switchgear, CISPR11 IEC 61000-4-2, IEC 61000-4-4, IEC 61000-4-17 IEC 61000-4-18, IEC 61000-4-29 IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-30 IEC 60068-2-6, IEC 60068-2-78 IEC 60255-21-1, IEC 60255-21-3 IEC 61010-1 CEPRI-EETC06-2019-0023 / CCAM19LP1860T6
Marking	File number: E510280 – Measuring Equipment c UL us LISTED Measuring Equipment E510280

PRODUCT LABEL

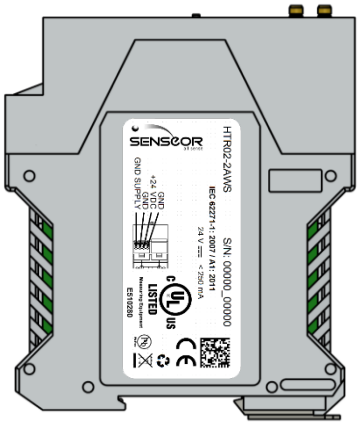


HTR02-2AWS signage label

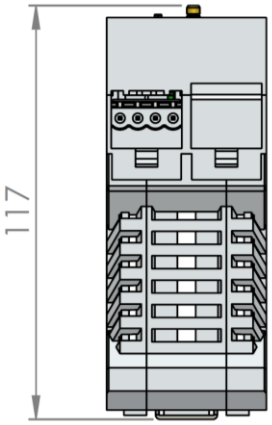


HTR02-6AWS signage label

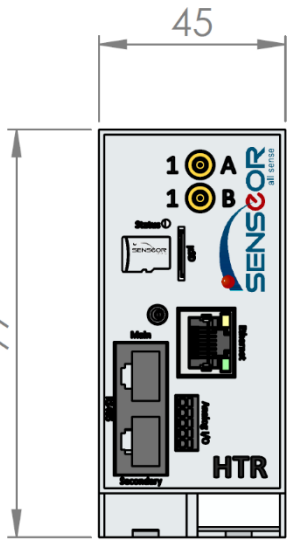
PHYSICAL DIMENSIONS



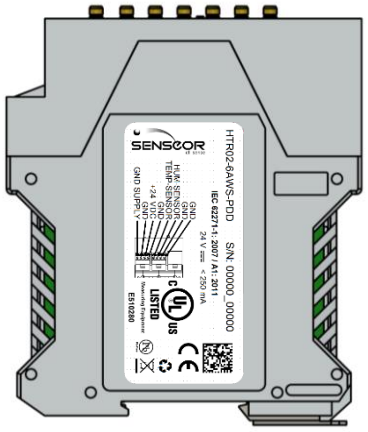
HTR02-2AWS side view



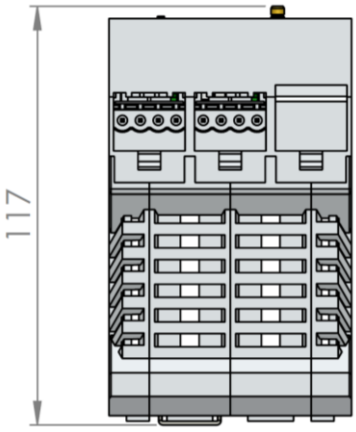
HTR02-2AWS bottom view



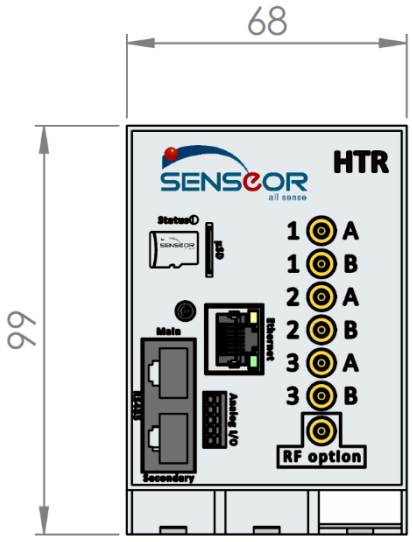
HTR02-2AWS front view



HTR02-6AWS(-PDD) side view



HTR02-6AWS(-PDD) bottom view



HTR02-6AWS(-PDD) front view