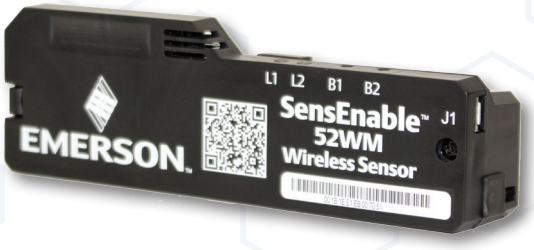
SensEnable™ 52WM

Smart Wireless Sensor

Infrastructure Management and Monitoring For Business-Critical Continuity



Overview

The Emerson 52WM Smart Wireless Sensor transmits critical infrastructure data from an on-board sensor through WirelessHART, an open standard wireless protocol.

Designed and integrated with Emerson's iCOM-S®, Trellis®, and Sitescan® control and monitoring systems, the 52WM provides a highly secure and preferred environmental sensing solution for critical data center environments.

From The Experts

"The proliferation of embedded, networked sensors that deliver an astounding volume of data to the business, more commonly known as the Internet of Things, is on the rise.

The business, in turn, can use this data to make superior decisions in real time and see more strategic trends and opportunities over the long term."

Ten Data Center Trends Driving Change in 2015
-Stephen J. Bigelow
Senior Technology Editor
TechTarget

Primary Benefits

Proven Reliability

- Designed using WirelessHART technology employed in critical application networks exceeding 6 billion operating hours
- Self-organizing, self-healing mesh network ensures optimized connectivity for 99.999% data reliability
- Superior interference tolerance obtained through Time Slotted Channel Hopping providing seamless coexistence with other wireless networks
- Provides 4+ years of battery life based on selected reporting intervals

Secure Network Communications

- Always ON AES 128-bit encryption for and secure data protection
- Data and Network Level Security provides key management, end to end security, and message based integrity checks

Open Standard and Easy to Deploy

- Compatible with WirelessHART (IEC 62591) International Standard providing connectivity options with existing WirelessHART sensors
- Quickly deploy in previously inaccessible areas
- Simple Network ID and Join Key provisioning for rapid network connection
- Mesh networking makes it easy to reconfigure and expand the network
- Multiple mounting options for convenient installation

Seamless integration and interoperability with Emerson's iCOM-S®, Trellis®, and Sitescan® analysis and control applications and Emerson analysis services

- Monitoring and control data for analysis of dynamic facility conditions
- Enables real-time decision making to manage both the IT and facilities infrastructure to optimize Power Usage Effectiveness (PUE)
- Enables improved visibility, understanding, equipment failure prevention, trending analysis and maximized infrastructure control
- Enables Thermal Mapping and CFD Modeling

EMERSON

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Push Buttons B1 and B2 for Device Configuration
LED Lights 1 - L1 and L2 Indicate Device Status

To review complete device specifications, additional literature and more, visit us online at www.tod.com

Device Specifications

Power	Two replaceable AA Lithium Ion batteries
Micro USB Port (J1)	Computer connection using a custom USB to Micro USB connection, can also be used to power the sensor with USB compliant power
Device Dimensions (LxWxH)	132 x 27 x 43 mm [5.2 x 1.0 x 1.6 in]
Operational Environment	Temperature: 0°C to + 60°C [32° F to +158° F] / Humidity: 10% to 90% (non-condensing)
Regulatory	FCC Part15, Subpart C, 15.247; RYR52W, IC ID: 10878A-52WM

52WM Wireless Sensor Configurations

Configuration	Part #	Sensed Parameters	Operating Environment	Accuracy	Product Image
T	213553	1 - Temperature	0°C to 60°C (32°F to 158°F)	±0.5°C typ	
TH	213556	1 - Temperature 1 - Humidity	0°C to 60°C (32°F to 158°F)	±0.5°C typ. ±3.0% RH, non-condensing	
3T	213554	3 - Temperatures	0°C to 60°C (32°F to 158°F)	±0.5°C typ.	
3TH	213555	3 - Temperatures 1 - Humidity	0°C to 60°C (32°F to 158°F)	±0.5°C typ. ±3.0% RH, non-condensing	

Learn More at www.tod.com

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T-O-D Form #2447

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