



WirelessHART Field Transmitter



*Field Transmitter PCU with HCD and HCDW sensor transducers and rigid monopole antenna

Overview

The Syscor Tracker™ WirelessHART Field Transmitter is an intrinsically safe device designed for Zone 0 deployment that integrates seamlessly into any standard WirelessHART network.

The Field Transmitter can be configured to detect inclination, acceleration/vibration and temperature. It can be paired with Syscor's sensor transducer attachments, which are configured to detect a combination of liquid or gaseous hydrocarbons (C₃ and heavier), temperature, acceleration/vibration and water level, depending on site and application requirements.

Sensor readings are communicated, along with network and battery status, via the WirelessHART standard to a WirelessHART Gateway, which in turn routes the data to industry standard monitoring and control systems as required.

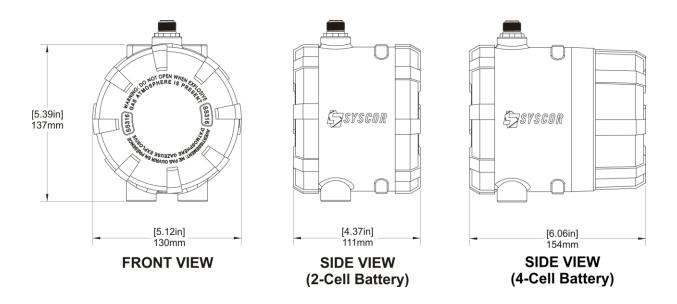
Related Solution Packages

Both the HC-Tracker™ and FR-Tracker™ Solution Packages use WirelessHART Field Transmitters.

- HC-Tracker Hydrocarbon leak detection in facilities, underground and in water bodies
- FR-Tracker Floating roof monitoring applications for aboveground storage tanks

Key Features

- Intrinsically safe design for Zone 0 deployment
- Extensively tested and independently qualified devices
- Stainless steel (SS316) construction
- Standard mounting bracket supports U-bolt, strut channel and direct screw mounting
- Self-contained units are easily installed and removed
- Wireless, battery powered units allow rapid deployment
- Intrinsically safe Syscor designed Li-SOCl₂ battery packs provide up to 10 years of power
- WirelessHART (IEC 62591) mesh technology creates self-forming, self-healing, scalable, secure networks
- WirelessHART technology allows easy addition and removal of units from an existing network
- Integrates easily with industry standard WirelessHART Gateways



Specifications

opcomounono	
Functional Specifications	
Power Usage	Typical:< 0.1 W
Internal Sensors	Temperature, accelerometer Optional: Inclinometer
External	2 x 1/2 in. NPT ports for external sensor
Sensors	transducer attachments
Wireless Comm.	WirelessHART IEC 62591 2.4 GHz DSSS
Wireless Data Update Rate	User-selectable; 1 second to 1 hour
Display	4 LED indicators for status and diagnostics
Physical Specific	cations
Power Supply	Replaceable, intrinsically safe, Li-SOCl ₂ battery pack; up to 10 yr. battery life depending on application and sampling rate 2-cell battery pack: 7.2V 19.0Ah 136.8Wh 4-cell battery pack 7.2V 38.0Ah 273.6Wh Enclosure: ABS plastic
Communication	Two (2) terminals for communication with HART field communicators
Enclosure	Housing: Stainless steel SS316 Rating: IP67
Antenna Options 2.4GHz	 Omni-directional, flexible whip monopole antenna, N-Type male, straight, 4dBi peak gain Omni-directional, rigid monopole antenna, N-Type male, straight, 3dBi peak gain Right hand circular polarized, patch antenna, N-type, 4.9dBi peak gain
Antenna Port	N-Type female
Conduit Ports	1/2 in. NPT
Sensor Wiring Connections	Screw terminals for 4x1 conductor 20 AWG tinned copper wire
Weight	3.75 kg [8.3 lbs.]
Mounting Options	Standard mounting bracket Magnetic mounting bracket (optional 3M VHB adhesive for aluminum surfaces)

Performance Specifications	
Electromagnetic	Meets all relevant requirements of
Compatibility	EN 62479:2010 and EN-61326-1:2013
Vibration and Acceleration	Ultra-low-power, high performance, three-axis linear accelerometer
	Dynamically selectable range: ±2g/±4g/±8g/±16g
	1 Hz to 5 kHz sampling frequency
	Acceleration and velocity detection
Inclinometer	High accuracy (0.1°), dual-axis digital
(Optional)	inclinometer/accelerometer sensor
	Digital inclination data, 0.025° resolution
	Digital acceleration data, 0.244 mg resolution
-	±1.7 g accelerometer measurement range
Temp. Sensor	±1°C [1.8°F] resolution
Operating Temp.	-40°C to 60°C [-40°F to 140°F]
Product Certifications	
Note: Certifications apply to the complete system (PCU + sensors)	
USA	Intrinsic Safety: [CSA] 4792360
	FCC: 2AAZE-000697
Canada	Intrinsic Safety: [CSA] 4792360
	IC: 11413A-000697
Product	North America: CL 1 DV 1 GP C&D T4
Markings	Europe: 11 1G Ex ia 11B T4
	<u> </u>

How to Purchase

Visit syscor.com for more information. Contact Syscor to discuss your specific site and application requirements.

Contact Information

Syscor Controls & Automation Inc.

Suite 201 - 60 Bastion Square Victoria, BC V8W 1J2

Canada

Toll Free Canada/USA: +1-833-361-1681

Tel: +1-250-361-1681 Fax: +1-250-361-1682 Email: contact@syscor.com Web site: syscor.com