

TrackView Pro Data Transmitters for Environmental Monitoring

Long Range Wireless and Power-Over-Ethernet Wired Data Transmitters



Both TrackView Pro wireless and Power Over Internet (PoE) wired data transmitters are an integral part of any Ellab environmental monitoring system. Each transmitter can accept up to two Ellab SMART probes for measuring parameters such as, but not limited to, temperature, relative humidity (RH), carbon dioxide (CO₂), differential pressure (DP), door switches, analog sensors with 4-20mA and 0-10V output, digital input and output sensors and more.

Ellab has optimized the wireless communication range to ensure an optimal system infrastructure. Two-way communication between the TrackView Pro RF transmitters and the Access Points provides confidence that all data is collected without loss. All data is captured, encrypted, and communicated securely, thereby maintaining data integrity.

A PoE transmitter may be chosen because the selected sensor, for example a carbon dioxide sensor, requires significant power and the PoE transmitter can act as a suitable power source. In other scenarios, a data collection rate faster than 1 minute may be required and our PoE transmitters have sampling rates as short as 1 second over an Ethernet connection.

Area	Parameters			
Laboratory Equipment	Refrigerators	Temperature	Humidity	-
	Freezers	-	-	Door
	Incubators	Temperature	Humidity	CO ₂
	Stability Chambers	Humidity	-	Door
	Clean Rooms (Pressure Cascades)	Temperature	Humidity	DP
	Packaging	Temperature	Humidity	-
	Cold/Frozen Room Storage	Temperature	-	-
	Warehouse Storage	Temperature	Humidity	-

Key Features & Benefits

PoE version capable of communicating directly with EMSuite software



**Total data integrity from
encrypted 2-way wireless
communication**



**95,000 data point
memory capacity**



**2 SMART connections for
Ellab SMART Probes**



**Relay output
(sound beacons,
flashing light,
autodialer)**



**Universal transmitter
accepting multiple sensor
inputs**



**TrackView Pro Auto
Detection for quick and
easy set-up**



**Easily Interchangeable
Sensors**



**Interested in this
product?
[Contact Sales Today](#)**



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Manufactured by Ellab

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Version: 2 EC230051

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Technical Specs

Communication		TrackView Pro Wireless Transmitters	TrackView Pro PoE Transmitters
Control and data transfer interface	Radio communication via Access Point	Ethernet	
Communication type	LoRa Radio 868-920MHz	10/100Mbps Ethernet (automatic switching)	
Communication connector	N/A	RJ45	
Wireless Communication range	Up to 100 m./328 ft. - Line of sight with open Fresnel zones		

Memory		TrackView Pro Wireless Transmitters	TrackView Pro PoE Transmitters
Memory Type		Non-Volatile EEPROM	
Memory Capacity		95,000 samples with one measuring point (Approx. 66 days memory capacity @ 1min sample rate)	
Minimum Sample Rate	1 Minute	1 Second with PoE	
Maximum Sample Rate		4 Hours	

Wireless transmit rate	TrackView Pro Wireless Transmitters
Transmit interval	Default sample/transmit rate : 1min / 5min Fastest sample/transmit rate : 1min / 2min

SMART probes (Separate purchase)	TrackView Pro Wireless Transmitters	TrackView Pro PoE Transmitters
Temperature	-200..+250°C	
Relative Humidity	0..100% non-condensing	
CO2	0..+20%	
Differential Pressure	±50Pa or ±1250Pa	
Analog Input Resolution: 24bit	4-20mA or 0-10V	4-20mA or 0-10V (+24VDC Available when PoE is connected)
Digital Input	To be driven by relay	
Digital Output	✓	✓
Door Switch	3m Cable	

Physical characteristics	TrackView Pro Wireless Transmitters	TrackView Pro PoE Transmitters
Batteries	2x 1.5V AA*	
Battery hours	>12 month at 1min sample rate and 5min transmit rate (Temp. sensor only)*	
PoE voltage	N/A	36-57VDC
PoE Standard	N/A	IEEE 802.3af
Material	PC/ABS	
Weight With Battery	210 g	225 g
Wall mount bracket	Included	
Temperature Range	-20°C to 60°C	
Humidity Range	0 to 90% non-condensing	
International Protection Rating (IP-class)	IP54 (IP53 for Logger with PoE)	

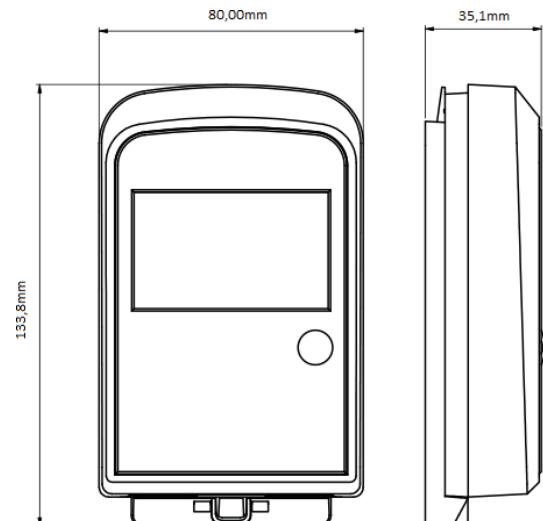
* Battery hours calculation based on use of the recommended 'Energizer Ultimate Lithium' battery type.

Compliance & Directives	TrackView Pro Wireless Transmitters	TrackView Pro PoE Transmitters
Operating Frequency	868MHz EU	
TelCom approvals / Radio approvals	915MHz USA FCC / Canada IC 920MHz Japan ARIB	Not Applicable
Product Safety Compliance / CE-Conformity	Product is CE and UKCA marked	
EMC compliance	In Compliance with EMC Directive	
Recyclability / WEEE compliance	In Compliance with WEEE Directive	
Declarations & Certification / RoHS Compliance	Product is CE and UKCA marked.	

TrackView Pro Transmitters	Order Codes
TrackView Pro Wireless Transmitter - 868MHz European Union compliant	33047341
TrackView Pro Wireless Transmitter - 915MHz US/Canada compliant	33047342
TrackView Pro Wireless Transmitter - 920MHz Asia compliant	33047343
TrackView Pro Wireless Transmitter - 915MHz Australia compliant	33047344
TrackView Pro PoE Transmitter	33043841

Maintenance & Cleaning	
Recommended cleaning method (Soft tissue)	70% Ethanol 10% H2O2 Water and mild detergents
Alternative cleaning agent(s)	N/A
Note: Over time using an alcohol-based cleaner may result in slight discoloration of the ABS material.	

Technical Drawing



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