TrackView Pro Data Transmitters for Environmental Monitoring

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

ellab
Validation & Monitoring Solutions

Both TrackView Pro wireless and 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 (CO_2), differential pressure (DP), door switches, analog sensors with 4-20mA and 0-10V input, digital input and output sensors and more temperature, relative humidity (RH), carbon dioxide (CO_2), differential pressure (DP), door switches, analog sensors with 4-20mA and 0-10V inputs, digital input and output sensors and more.

Ellab has optimized the wireless communication range to ensure an optimal system infrastructure. LoRa radio communication protocol ensures that all transmitted data is secure via HTTPS encryption. 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.

TrackView Pro PoE transmitters support both RF and/or PoE data communication. In scenarios where RF is still required, a PoE transmitter may be selected because the sensor selected, such as carbon dioxide, 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	🌡️	💧	-	🚪
	Freezers	🌡️	-	-	🚪
	Incubators	🌡️	💧	CO_2	🚪
	Stability Chambers	🌡️	💧	-	🚪
Clean Rooms (Pressure Cascades)		🌡️	💧	🔘	💨
Animal Rooms		🌡️	💧	CO_2	🚪
Packaging		🌡️	💧	-	-
Cold/Frozen Room Storage		🌡️	-	-	🚪
Warehouse Storage		🌡️	💧	-	🚪

Key Features & Benefits

PoE version capable of communicating directly with EMSuite software

🔒 **Total data integrity form encrypted 2-way wireless communication**

🔌 **2 SMART connections for Ellab SMART Probes**

📦 **Universal transmitter accepting multiple sensor inputs**

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

⬆️⬇️ **Easily Interchangeable Sensors**

🖥️ **95,000 data point memory capacity**

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

Interested in this product?
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Manufactured by Ellab

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Technical Specs

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Communication	TrackView Pro	PoE TrackView Pro
Control and data transfer interface	Radio communication via Access Point	Radio communication via Access Point Or Ethernet
Communication type	LoRa Radio 868-920MHz	LoRa Radio 868-920MHz (10 Mbps) or 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	PoE TrackView Pro
Meomory Type	Non-Volatile EEPROM	
Memory Capacity	95,000 samples with one measuring point	
Minimum Sample Rate	1 Minute	1 Second with PoE
Maximum Sample Rate	4 Hours	

Wireless transmit rate	TrackView Pro	PoE TrackView Pro
Transmit interval	Default, every 1 to 5 samples Maximum, every 1 to 2 samples	

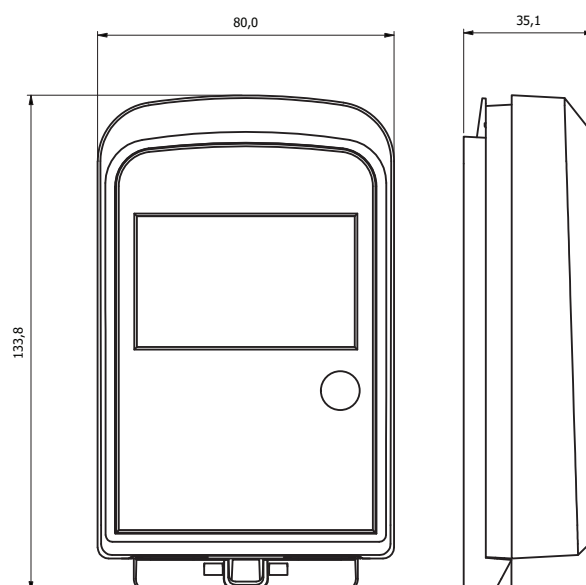| SMART probes (Separate purchase)	TrackView Pro	PoE TrackView Pro
Temperature	-200..+250°C	
Relative Humidity	0..100% non-condensing	
CO2	0..+20%	
Differential Pressure	±50Pa or ±1250Pa	
Analog Input Resolution: 24bit	4-20mA or 0-10V	4-20mA or 0-10V (+24VDC Available when PoE is connected)
Digital Input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

Physical characteristics	TrackView Pro	PoE TrackView Pro
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	PoE TrackView Pro
Operating Frequency TelCom approvals / Radio approvals	868MHz EU 915MHz USA FCC / Canada IC 920MHz Japan ARIB	
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.	

Order Code	TrackView Pro	PoE TrackView Pro
TrackView Pro Transmitter - 868MHz European Union compliant	33047341	33043841
TrackView Pro – 915MHz US/ Canada compliant	33047342	33043842
TrackView Pro – 920MHz Japan compliant	33047343	33043843

Maintenance & Cleaning		
Recommended cleaning method (Soft tissue)	70% Ethanol 10% H2O2 Water and mild detergents	
Alternative cleaning agent(s)	N/A	

Technical Drawing

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