ViewPoint® Essentials Sensor (900 MHz)

Continuous Monitoring Solutions

Mesa Labs ViewPoint® Essentials Sensor is a **cost-effective** wireless transmitter offering you peace of mind that your key environmental conditions monitoring is **accurate and secure.**

Using interchangeable probes, the Essentials Sensor records and transmits temperature and humidity data with high accuracy and includes a dry contact channel for door switches/alarm contact. The ViewPoint® Essentials Sensor is compatible with existing CheckPoint® G4, ViewPoint VPx, and the latest-generation ViewPoint VPx Pro 6 systems, providing upgrade flexibility and protecting your monitoring investment.

The ViewPoint Essentials Sensor features a fault-tolerant file system for high-integrity data storage and buffering to prevent data loss or corruption during network or power disruptions. With available on-board memory of up to 4,000 time-stamped data points, programmable data sampling and transmission rates, all measurement data is logged locally and transmitted autonomously to ViewPoint software at configurable intervals and during any parameter excursions.

The ViewPoint Essentials Sensor utilizes two AA alkaline batteries and can operate continuously for up to 2 years[1] at a 5 minute transmit interval using 1 minute sampling rates and up to 3 years[1] with 15 minute transmit and sample rates in Battery Saver Mode.

ViewPoint Essentials Sensors, inputs and alerting are supported in web-based ViewPoint Pro On-Premise and ViewPoint Cloud software applications, Release 1.4 or later.

Features & Benefits

+ User-configurable inputs, alarm delay, transmission & logging intervals

+ Detachable probe design enables easy, convenient Probe Exchange option to meet yearly calibration requirements

+ Up to 2 years[1] battery life at a 5 minute transmit rate using 2 AA alkaline batteries

+ Onboard memory stores 4,000 data measurements

+ Configuration can be updated via over-the-air (OTA) two-way communication technology or configuration cable

+ Fault Tolerant File System secures measured data integrity

+ Two (2) I/O ports for temperature or temperature/relative humidity input and a discrete switch/dry contact input

+ Push button operation to change sensor modes and query status with LED indicator light

1. Battery life is dependent upon configuration mode (G4 or G5), programmed sampling and transmit rates, time spent in alarm state, frequency of Fast Transmit usage, battery chemistry and quality, environmental conditions, and other usage variables that can impact overall life. Mesa Labs recommends annual battery replacement cycles to ensure continuous operation and data fidelity.

ViewPoint® Essentials Sensor (900 MHz)

Continuous Monitoring Solutions

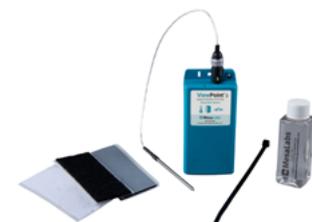| ViewPoint Essentials Sensor (900 MHz) General Specifications	
Radio	900 MHz (902-928 MHz) frequency hopping radio
Operating Environment	+15°C to +40°C and 0 to 90% relative humidity (RH) non-condensing
On-board Memory	Up to 4,000 logged packets
Power	Two (2) AA size 1.5V alkaline batteries
Dimensions	2.15" W x 4.25" H x 1.125" D
Weight	4.1 ounces (with batteries)
Required Infrastructure	ViewPoint 900MHz Access Point (part number DS-VP-900-AP) or VPx 900MHz Access Point (part number CM-000250)
Software Compatibility	ViewPoint Professional (VP Pro) On-Premises Edition, Release 1.4 or later ViewPoint Cloud Edition, wRelease 1.4 or later

ViewPoint® Essentials Sensor (900 MHz)

Continuous Monitoring Solutions

ViewPoint Essentials Temperature Sensor (900 MHz) Compatible Probes and Kits

Sensor Part Number	DS-VP-ESS-900-S-TEMP

Input(s)	One analog input (Thermistor temperature probe) One discrete / binary input (door status or dry contact)

Input Probe Part #	Input Probe Type	G5 Mode Application Range	G5 Mode Accuracy	G4 Mode Application Range	G4 Mode Accuracy
72107	10K Ohm Thermistor Air Probe	-30°C to 60°C	± 0.5°C	-30°C to 60°C	± 0.5°C
72105-12	10K Ohm Thermistor 3" Stainless Steel Probe	-50°C to 60°C	± 0.5°C	-30°C to 60°C	± 0.5°C

Kit Part #	Kit Description	Kit Components
DS-VP-ESS-900-S-TEMP-AIR-KIT	ViewPoint Essentials 900MHz Temperature Sensor w/ Air Probe Kit	ViewPoint Essentials 900MHz Temperature Sensor Air Probe Cable Tie, 8", Black Cable, Extension, 4-Wire Flat Ribbon, 4ft 1.5"" x 3.5"" Mated Velcro Pairs
DS-VP-ESS-900-S-TEMP-SS-KIT	ViewPoint Essentials 900MHz Temperature Sensor w/ 3" SS Probe Kit	ViewPoint Essentials 900MHz Temperature Sensor 3" Stainless Steel Probe with 12" lead wire Cable Tie, 8", Black Cable, Extension, 4-Wire Flat Ribbon, 4ft Glycol Bottle Cap with 0.125 inch RTD Hole Single Bottle with BioTherm Fluids PGX and MSDS 1.5"" x 3.5"" Mated Velcro Pairs

ViewPoint® Essentials Sensor (900 MHz)

Continuous Monitoring Solutions

ViewPoint Essentials Humidity Sensor (900 MHz) Compatible Probes and Kit

Sensor Part Number	DS-VP-ESS-900-S-HUMI
Input(s)	One digital input (I2C temperature and relative humidity probe) One discrete / binary input (door status or dry contact)

Input Probe Part #	Input Probe Type	G5 Mode Application Range	G5 Mode Accuracy	G4 Mode Application Range	G4 Mode Accuracy
72109	Temp/Humidity Probe	10°C to 40°C and 10% RH to 90% RH	± 0.4°C ± 2.0% RH	10°C to 40°C and 10% RH to 90% RH	± 0.4°C ± 2.0% RH

Kit Part #	Kit Description	Kit Components
DS-VP-ESS-900-S-HUMI-KIT	**ViewPoint Essentials 900MHz Humidity Sensor Kit**	ViewPoint Essentials 900MHz Humidity Sensor I2C Temperature & Relative Humidity Probe Cable Tie, 8", Black 1.5"" x 3.5"" Mated Velcro Pairs

ViewPoint Essentials Ultra-Low Temperature Sensor (900 MHz) Compatible Probes and Kit

Sensor Part Number	DS-VP-ESS-900-S-ULT
Input(s)	One analog input (Thermistor temperature probe) One discrete / binary input (door status or dry contact)

Input Probe Part #	Input Probe Type	G5 Mode Application Range	G5 Mode Accuracy	G4 Mode Application Range	G4 Mode Accuracy
72109	500 Ohm Thermistor Ultra-Low Probe	-90°C to 0°C	± 0.5°C	-90°C to 0°C	± 0.5°C

Kit Part #	Kit Description	Kit Components
DS-VP-ESS-900-S-ULT-KIT	**ViewPoint Essentials 900MHz Ultra-Low Sensor Kit**	ViewPoint Essentials 900MHz Ultra-Low Sensor Ultra Low Temperature Probe Cable Tie, 8", Black 1.5"" x 3.5"" Mated Velcro Pairs

ViewPoint Essentials Sensors (900 MHz) Recommended Accessories

43006	Door Access / Motion Cable (Contact Cable and Magnetic Contact)
166552	Wi-Fi Stereo Programming Cable
166563	G3-G4 3-Pin Programming Cable
TWA53-A	BATTERY, ALKALINE 1.5V