

Qstream-CPM

Ionizer Monitoring System



Qstream-CPM is ideally suited for real-time monitoring of Ionizer. The 25mm*25mm sensor can be installed in a narrow spaces to monitor Ion Balance and \pm decay time starting from 1KV, to evaluate Ionizer performance and working condition. It comes with built-in 20pF capacitor which fully compliant with ANSI STM3.1-2015. Qstream-CPM helps customers to monitor the ion balance performance of ionizer continuously and saves significant labor costs in regular maintenance on checking the Ionizer performance.

Performance and Application

- The accuracy is better than 0.1% of full scale, and the timing resolution is 0.1s
- 4.3-inch Touch screen view data, configuration parameters, and operate system
- Master unit analog signal can be transfer directly through the output interface of RJ11, and the slave unit's analog data can be obtained from the software through the RJ45. The built-in 32G SD card supports offline data storage when network disconnected
- Qview software able to support for customization on the dashboard, test data, configuration parameters, alarm information according to the demand; CIM/MES supported
- High temperature applications (Require high temperature charge-plate optional accessories)
- Suitable for ESD monitoring in the manufacturing of electro-static sensitive components in semiconductor, HDD and LCD assembly production line
- Suitable for monitoring all types of ionizers, including AC/DC Fan/Bar/gun type, pulse DC ion generator, and radioactive ion generator

Product Features

Decay time test

Start and stop voltages are programmable from 1 to 1000V (1 V increments)

Specification

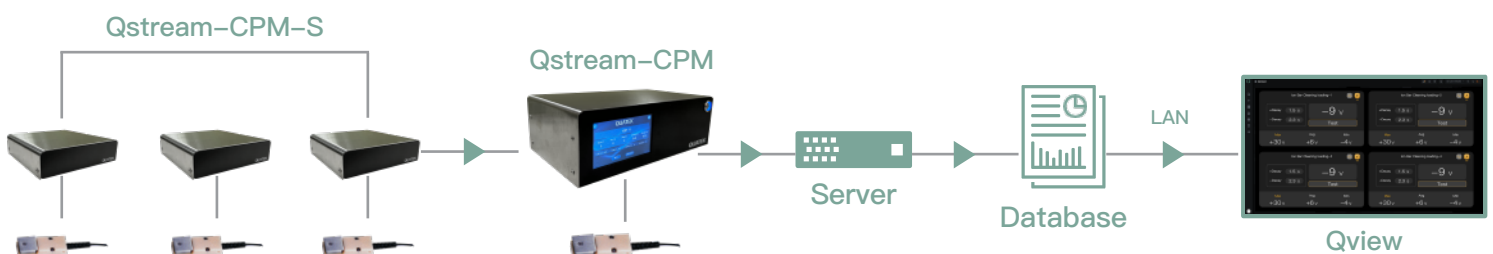
Complied with ANSI/ESD-STM3.1 and IEC61340-5-1 specifications

80Hz Measurement Frequency

The AC Ionizer induction charging condition can be detected

Multi-channel Configuration

Qstream-CPM master unit can be configured with three slave units



Performance		
Monitored Voltage Range	0 to ±1020 V DC or peak AC	
Charging Voltage Range	0~±1050V	
Bandwidth (-3dB)	DC to 80 Hz	
Zero Stability (referred to plate voltage)	Drift with Time (no incident ion flow)	Less than 6V/ minute
	Drift with temperature	Less than 10mV/°C, non-accumulation
Decay Mode Thresholds	Start voltage	Programmable from 1 to ±1000 V in 1 V increments
	Start Accuracy	Within ±1 V of programmed start voltage
	Stop Voltage	Programmable from 0 to ±999 V in 1 V increments
	Stop Accuracy	Within ±1 V of programmed stop voltage or ±0.2 V if set less than or equal to 90 V
	Discharge Time Resolution	0.1 sec, from 0.1 sec to 999.9 sec
Plate Self-Discharge Rate	Less than 12V/ min	

Qstream-CPM Specifications			
Display Screen	4.3-inch LCD touch screen, 800*480 resolution	Dimensions	260*160*86mm (master unit)
Output	200:1 (charging plate voltage 1/200)	(H x W x D)	142*142*36mm (slave unit)
DC Accuracy	Better than 0.1% of full scale	Weight	1.5kg (master unit)
Port	RJ45 and RJ11		0.5Kg (slave unit)
SD Card	32GB	Temperature	5~35°C (41~95°F)
Power	12V&1.5A DC2.1mm power port	Relative Humidity	80%, no condensation

Qstream-CPM Ordering Information




Qstream-CPM
ionizer monitoring master unit




Qstream-CPM-S
ionizer monitoring slave unit


Option




156P-C25X25-S3M-CE
Test plate



156AP-C150X150-R3M-CE
Standard Test large plate



QC-HT Plate(0°C~190°C)
High temperature plate



QC-Fixture
Fixture