

Multifunctional CPM

Electrostatic Total Solution

SCM-10N

Multifunctional CPM

8-Channel Charged Plate Monitor

The Multi-Channel CPM that manages the performance of up to 8 ionizers at once

The SCM-10N is an **integrated system** that systematically improves process quality through **precise real-time measurement** of each channel's static elimination performance, **remote monitoring**, and **data history management**.



Plate Lineup by Process Environment

Capacitance 5 pF	Capacitance 5 pF	Capacitance 5 pF	Capacitance 20 pF
			
Compact (Straight) 25 x 25 mm Included	Compact (Elbow) 25 x 25 mm Optional	Compact (Reverse Elbow) 25 x 25 mm Optional	Standard 150 x 150 mm Optional

Key Features

 Expandable up to 8 Channels Integrated monitoring of static elimination performance for multiple ionizers (1~8 channels)	 Real-time Performance Measurement Precise measurement of ion balance and static elimination performance (Decay)	 Remote Network Integration Upper system integration via LAN and RS-485 (Modbus RTU)	 Dedicated PC Data Analysis Real-time graph analysis, data storage, and quality history management
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Technical Value & Benefits

01 Multi-Channel Architecture  Integrated Multi-Channel Management Technology Integrates and manages up to 8 CPM modules in a single system. Benefit Saves management time and costs by simultaneously checking the static elimination status of multiple facilities.	02 Real-time Data Analysis  Real-time Data Logging & Analysis Technology Supports real-time measurement value storage and PC program-based graph analysis. Benefit Enables rapid cause tracking upon error occurrence and secures process quality history.	03 Flexible System Integration  Excellent System Scalability Technology Integrates with upper systems through LAN / RS-485 based communication support. Benefit Facilitates easy system integration with existing process PLCs and production lines.
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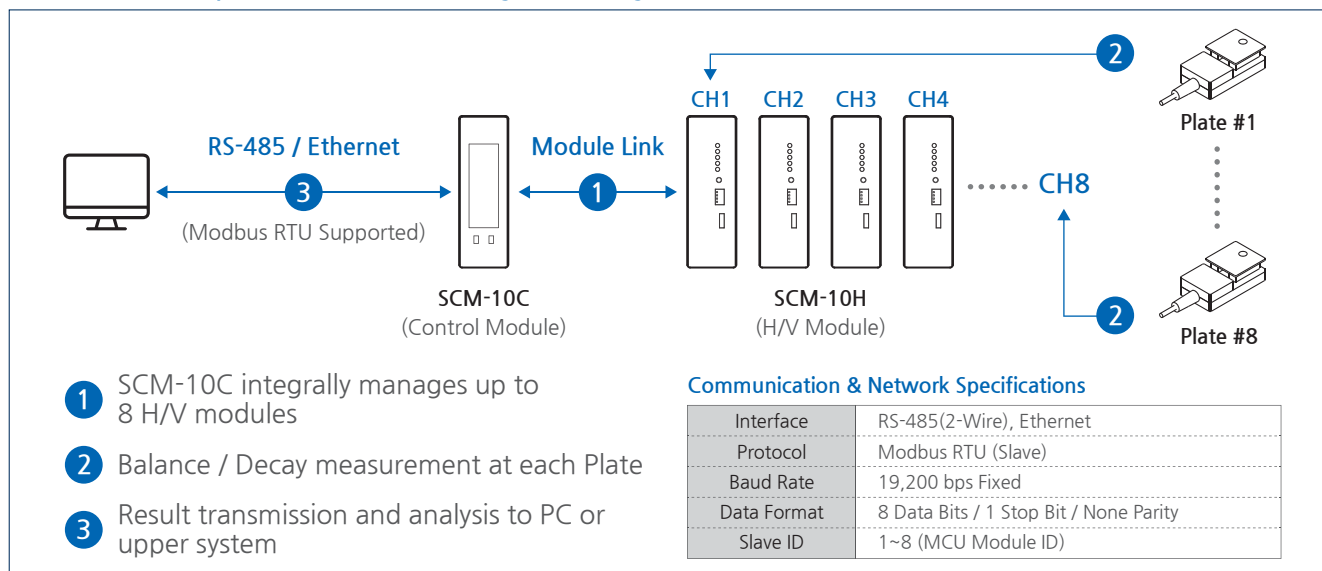
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Key Technology

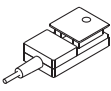
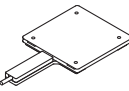
Key Measurement Modes

 Balance Mode Manages positive and negative ion balance by checking offset voltage in real time. Maintain below $\pm 35V$ recommended	 Decay Mode Evaluates static elimination speed by measuring the time required for initial charge voltage to drop to 10%. Based on $\pm 1000V \rightarrow \pm 100V$	 All Mode Simplifies comprehensive evaluation by automatically executing Balance and Decay sequentially. Balance $\rightarrow$ Decay
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Multi-Channel Expansion & Network Integration Diagram



Detailed Plate Specifications

Classification	Compact (Straight)	Compact (Elbow)	Compact (Reverse Elbow)	Standard
Type				
Size & Capacitance	25 × 25 mm (5 pF)	25 × 25 mm (5 pF)	25 × 25 mm (5 pF)	150 × 150 mm (20 pF)
Key Features	Straight cable structure, precise measurement in narrow areas	90° right-angle cable structure, minimized spatial interference	Reverse right-angle structure, compatible with special wiring environments	Complies with ANSI/ESD STM3.1 standard
Recommended Processes	Inside equipment & straight transfer lines	Lines requiring side wiring	Special equipment with severe rear/bottom interference	General ionizer performance verification processes

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Applications

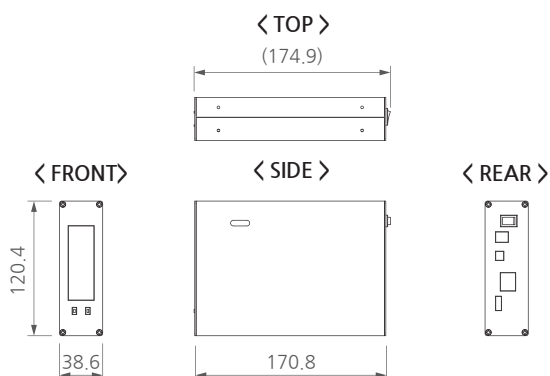
Semiconductor &
DisplayElectronic
Component
ManufacturingAutomated
EquipmentFilm &
PackagingMedical &
Bio

Specifications

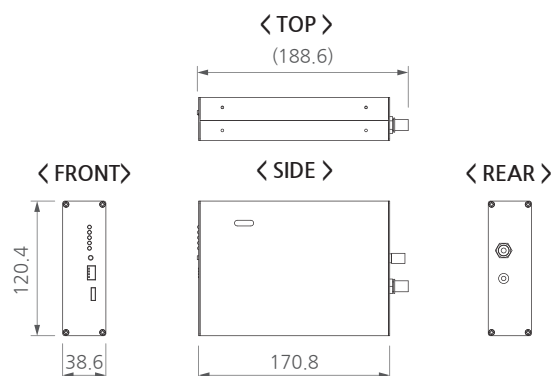
Parameter	Description / Value
Input Power	DC 24V $\pm$ 5%
Current Consumption	Max 1.0 A (Based on 4 Channels)
Power Consumption	24 W (Based on 4 Channels)
Supported Channels	Supports expansion up to 8 Channels
Communication Method	RS-485 / Modbus RTU
Measurement Range	0 ~ $\pm$ 1000 V (Balance / Decay)
Operating Temperature	0°C ~ 50°C
Operating Humidity	35% ~ 85% RH, No condensation

Dimensions

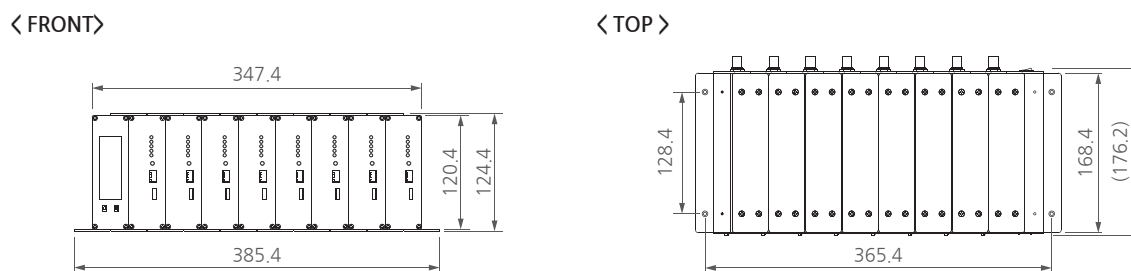
► SCM-10C (Control Module)



► SCM-10H (H/V Module)



► SCM-10N (Control + H/V Module Set / 1:8 Type)



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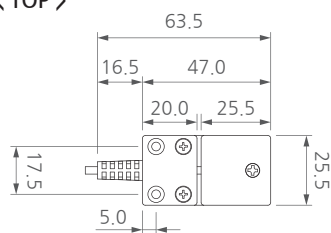
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▶ Plate (25*25mm / Straight)

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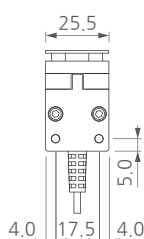


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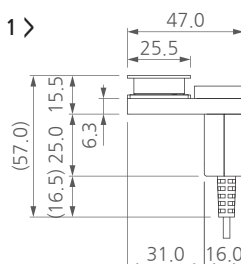


▶ Plate (25*25mm / Elbow) _Option

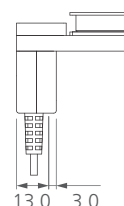
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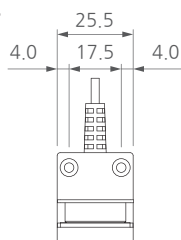


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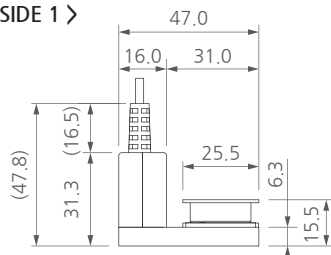


▶ Plate (25*25mm / Reverse Elbow) _Option

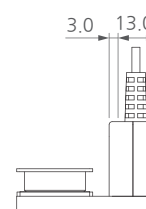
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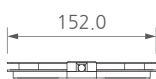


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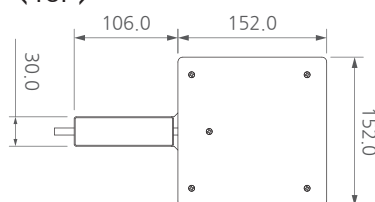


▶ Plate (150*150mm) / Option

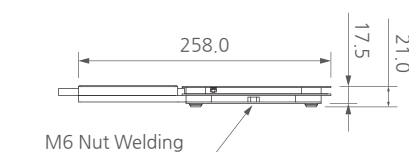
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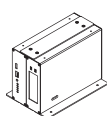
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Included Items



SCM-10N (Control + H/V Module Set)
 • SCM-10C(Control Module) : 1ea
 • SCM-10H(H/V Module) : 1~8ea
 • Link PCB (Included in SCM-10H)

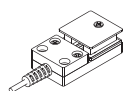


Plate
 25*25mm
 (Straight)
 1~8ea



Adapter
 1.6m



Ground
 Cable
 (3m)