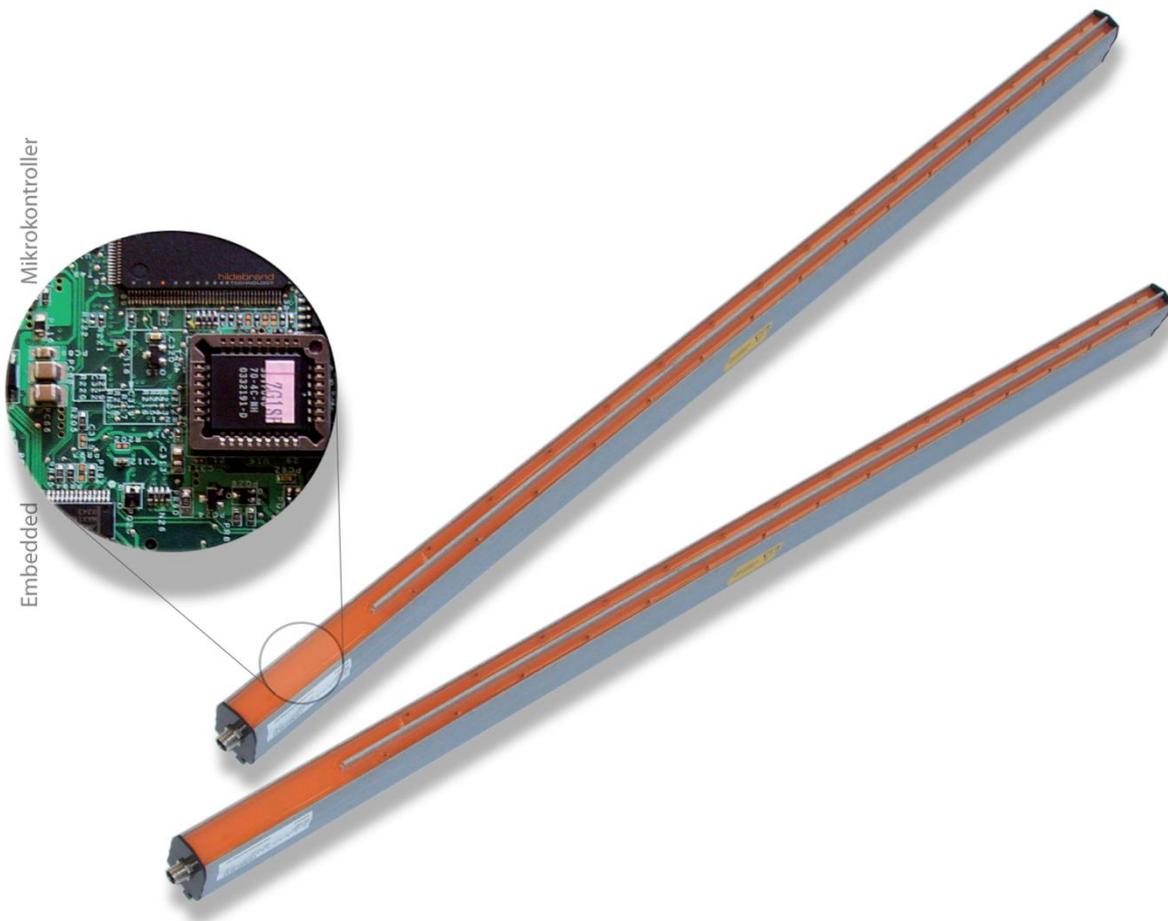


New electrostatic discharging system from Hildebrand Technology AG

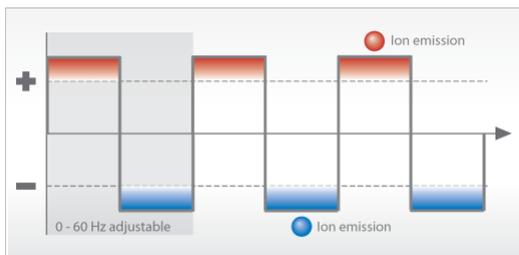
■ IONstream FUSION is a high performance static neutralising system. It incorporates the latest technological developments and is micro-controller operated with local embedded intelligence. Electrode contamination and emitter pin status, as well as neutralizing efficiency, are continuously monitored and visualized in real time. Accessible with a handheld computer or a master touch panel LCD. Parameters can easily be changed by process engineers. These parameters include the frequency from 0 -100 Hz and pulse width in the PULSE^{DC} mode as well as each polarities output voltage value. This allows the user to adapt the system settings to the application requirements and achieve the best possible static neutralising result. All electronic components and high voltage parts are encapsulated inside the bar profile. Supply voltage is 24V DC. IONstream FUSION is available in two versions, a +/-6kV standard application version and a +/-12kV long range application version.



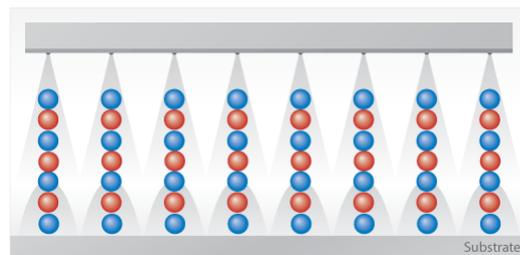
Product Image

Technology

■ By applying alternate positive and negative high voltage current to the emitter pins, ions of both polarities are generated. IONstream FUSION's special pin pitch setup and tungsten steel pin material generates substantially more ions over the same time frame and provides a much more homogenous electrostatic field when compared to any other conventional PULSE^{DC} method neutralising systems. The highly efficient pin shape and its sharpness is maintained during the full life time of the neutralizing bar. Our revolutionary design of the static neutralizing bar is constructed with a special glass fibre re-enforced extrusion incorporating non-metallic shields which work in harmony with the electrostatic field of the emitter pins. The result of this revolutionary technology and intelligence is an effective neutralising range of up to 1500mm in certain applications. The expert DOE (design of experiments) software in combination with its real-time micro-controller functionality allows easy integration into today's industrial Fieldbus as well as Ethernet networks.

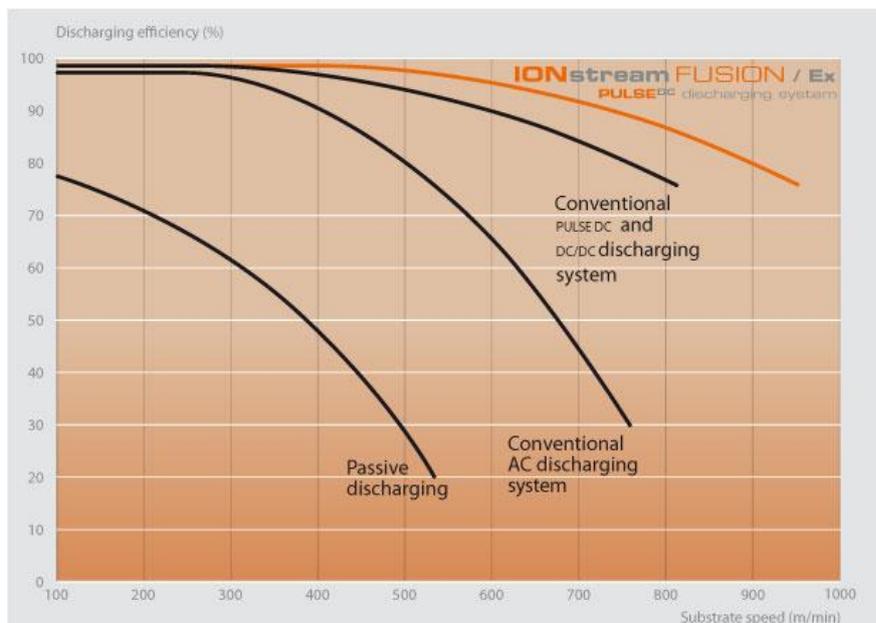


PULSE^{DC} method



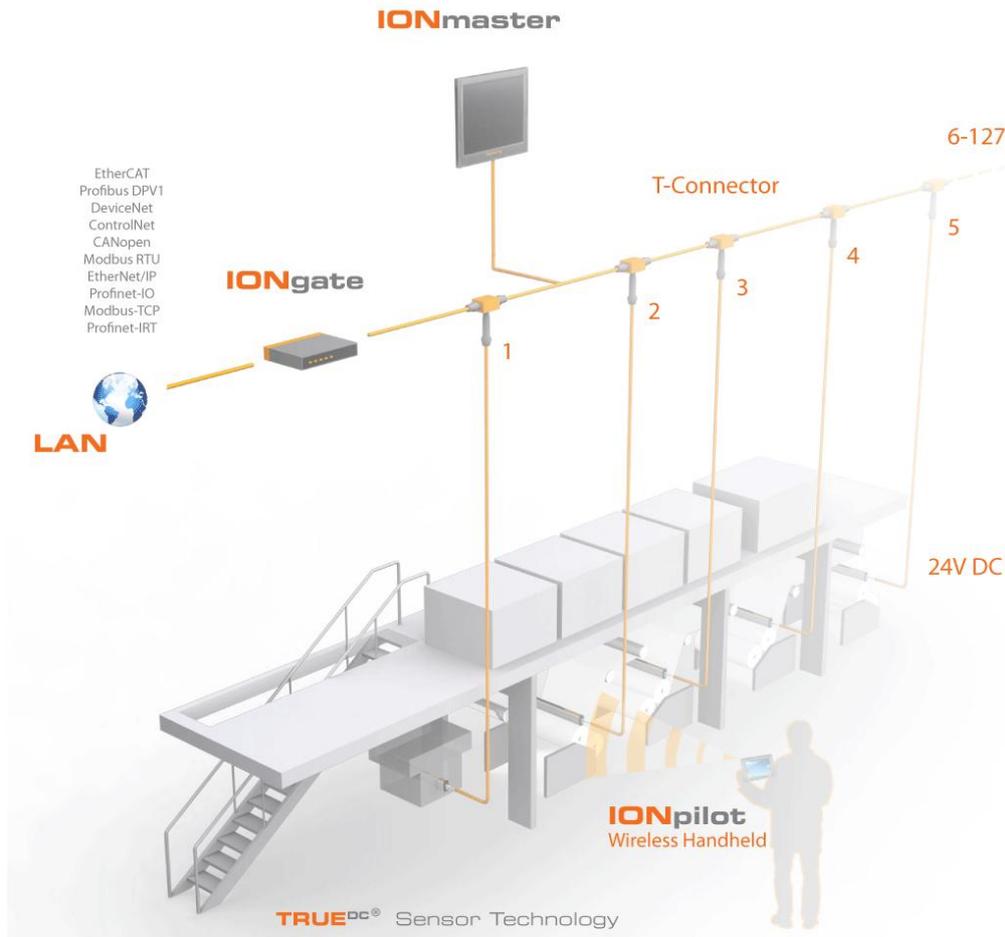
Ion flow

System discharging efficiency comparison (dynamically)



Network functionality

- If connected to a network, up to 127 neutralising bars can be monitored and controlled via a single Master or be connected via our Gate-Way to the customers interface.



Software Features

- Main system display showing neutralising bar position and real time performance status.
- Access for detailed diagnostics of each individual neutraliser in the system.
- Password protected Engineer access screen for individual adjustment and parameter setting for each of the systems neutralising bars.
- System logs and graphically displays production run performance data including residual charge for **100%** process control / TQM.

IONstream FUSION System Advantages

Application:

- PULSE^{PC} Technology up to 100Hz
- 24V DC supply, all electronic components integrated in neutralising bar profile
- Micro-controller operated; Contamination and emitter pin status detection
- Superb discharging efficiency for ionising ranges up to 1500 mm
- Network compatible, internal CAN open bus to communicate with touch panel or „Anybus“ Gate-Way

Economical:

- 100% process control with real time log book of system parameters
- TQM Sensor option to detect and protocol residual charge

Safety:

- Shock proof according EN 60335
- II 2G Ex mb IIA T6 (-20° ≤ Ta ≤ +50° C)

Ecological:

- Ozone generation < 0.1ppm
- Lowest energy consumption in its class



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