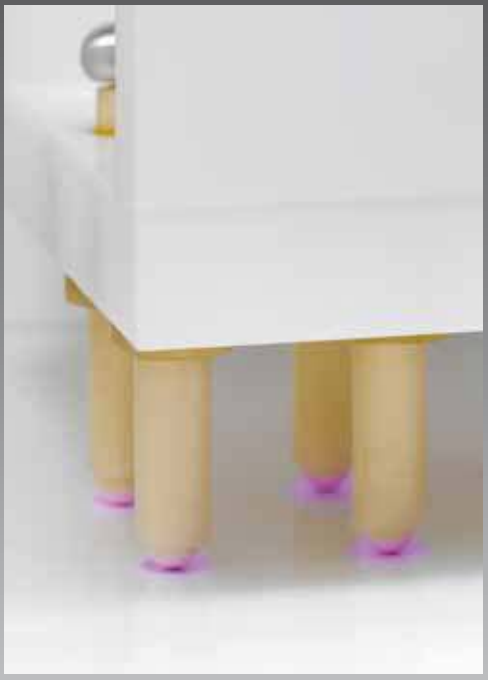
ProductInformation

MonTEC – Corona Performance Monitoring System



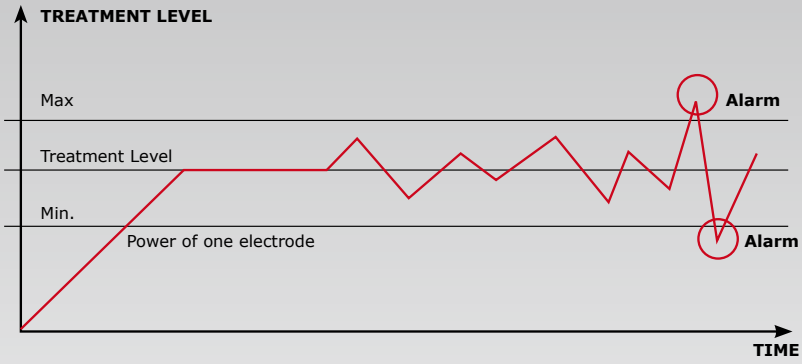


Fig. 1 Alarm function diagram

MonTEC – Corona Performance Monitoring System

MonTEC is an advanced system for Tantec's corona and plasma treaters that monitors the discharge performance from each individual treatment electrode.

A MonTEC system employs 8-channel transmitter modules powered by the applied high-voltage to the treatment electrodes, transmitting discharge data to the integrated 8-channel receiver modules.

An essential part of the system is a microprocessor managing all received data from the electrodes with data-transfer to a main machine control, i.e. a PLC-unit or computer.

Once the monitoring system is calibrated with the dedicated electrode system consisting of single or multiple electrodes, a process window can easily be programmed and displayed with minimum and maximum discharge values for each individual electrode.

The MonTEC provides real time data and offers full control and traceability of treatment parameters.

The measured data is easily transferred to a main PLC or computer using the RS232/RS485 interface.

TECHNICAL DATA

Features:

- **Full quality control**
- **Scrap reduction**
- **8-channel modules**
- **Programmable treatment alarm**
- **Max./min. alarm levels**
- **Communication**
- **Windows software**

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TechnicalData

Plasma & Corona Treaters

Features:

Full quality control	Allows monitoring of discharge levels at all times.
Scrap reduction	As the system will provide an instant alarm in case of discharge variations.
8-channel modules	A single module allows for monitoring from 1 to 8 individual electrodes.
Programmable treatment alarm	MonTEC software allows for easy adjustment of discharge alarms.
Max./min. alarm levels	Offers both max. and min. discharge alarm levels.
Communication	Interface with PLC or PC through RS232/RS485 port.
Windows software	Easy to use windows software to monitor and adjust all parameters.

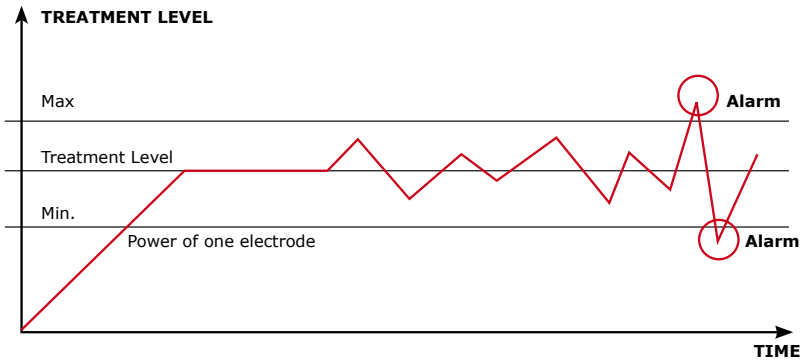

Fig. 1 Alarm function diagram

Technical Specifications	Transmitter Module	Receiver Module
Channels	8-channel output expandable modules	8-channel output expandable modules
Treatment level, min./max.	Must be calibrated with electrode system	Programmable software
Input voltage	Powered by corona electrodes	+24 VDC (Power supply is optional)
Connectivity/communication	Data transmission through plastic optical fiber cable	Serial RS232/RS485 to external PC/PLC
Data monitoring		LCD-display (optional) or external PC/PLC
Ramp up time	300 mS	
Ramp down time	300 mS	
Data	42 mS	
Electrode power	Max. 32 mA	

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