

SOLLATEK PROVIDES CRUCIAL SURGE PROTECTION & DIAGNOSTICS FOR DECONTAMINATION UNITS



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SMH Products, a leading manufacturer specialising in decontamination equipment for hazardous materials encountered a significant challenge when their customers started reporting frequent equipment malfunctions. Upon a swift and thorough investigation, it was determined that these issues were primarily attributed to overvoltage, damaging the PCB within the water heaters. This caused the units to malfunction or stop functioning altogether. In response to these issues, the Sollatek Multifunction Controller (SMC) was recommended.

The primary purpose of the SMC was to protect against overvoltage, with its secondary role as an aid in identifying the underlying causes of electrical

damage to the PCBs. The introduction of the SMC was significant for SMH specifically during their diagnostic process. Previously, addressing equipment faults required the immediate dispatch of an engineer, a costly and time-consuming endeavour. However, with the installation of the SMC, engineers could now pinpoint potential issues without an on-site visit, greatly simplifying their process.

SMH further reported one of their customers aimed to enhance the self-sufficiency of an on-site decontamination system by connecting it to an external generator while working in a warehouse. This generator subjected the system to a constant 320V, which could

have resulted in serious damage. In this event, the SMC effectively protected the unit, cutting off power to prevent damage, dispelling any doubts about equipment-related faults. Consequently, customers could easily determine whether issues stemmed from their site's power supply by monitoring the LEDs on the SMC.

The SMC has proven to be an invaluable asset for SMH Products, serving as a critical protective component for their equipment. Not only has it streamlined the diagnostic phase and reduced cost for their engineers, but it also simplified identifying potential electrical issues.



The Sollatek SMC is a 20 Amp automatic voltage switcher that protects against high and low voltage. Its default range is 185-260 Volts but can be adjusted as needed. It features the Sollatek Time-Save and AVS functions, disconnecting the load when the mains power goes outside pre-set limits and automatically restoring mains when power stabilises.

It is a DIN rail mounted device which is fitted into the distribution board or fuse box. The device has five LEDs that accurately display its status. In this installation, the SMC was directly wired to the distribution board connected to the water heater.

"The SMC was the proof we needed that our products were not the problem. Sollatek's [SMC] narrowed down our diagnosis on these sites; it was either their mains board or their generator — however, it was not our problem! This saved us both time and money. A great company with a great product."

*Lloyd Copeland
Project Engineer, SMH Products*

Sollatek Multifunction Controller (SMC) VOLTAGE PROTECTION

Output	20 Amps
Operating Voltage	90V to 300V
Frequency Error Range Detection	35-75 Hz
Low Voltage Protection (LVD) Range	50V to 300V
High Voltage Protection (HVD) Range	50V to 300V
Programmable Startup Delay	0-1000hr Range
INCLUDED FEATURES	

- TimeSave™ Function (Intelligent Time Delay)
- AVS™ Function (Automatic Voltage Switcher)
- Operation Status Indicator (5 LEDs)
- Incl. Sollatek Programming Key
All variables are programmable



Sollatek's expertise extends worldwide through local networks

Established for over 40 years in the United Kingdom, Sollatek is a manufacturer of innovative products in power control, energy saving, temperature control and solar energy. Operating from 12 countries and a global distribution network in 60 more. Sollatek has grown to become a household name, particularly in harsh and demanding environments where reliability and affordability are essential to everyday life. The Sollatek voltage protection product range now includes full lines of voltage switches, stabilisers, conditioners and uninterruptible power supplies (UPS).

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