

HAUG Ionization - for the elimination of electrostatic charges



Multistat S power pack

The discharging power pack **Multistat S** is intended for the supply of voltage to HAUG ionizing units. It is based on the successful Multistat and offers additional function monitoring for the complete ionizing system. Signalling sockets allow the operating condition of the ionizing system to be scanned and controlled.

Principle

The **Multistat S** transforms the available mains voltage to a high voltage of 7–8 kV_{AC}. An analog display at the front of the unit allows the high voltage provided to be checked.

The function monitoring of the **Multistat S** continuously monitors the output high voltage in the components of the ionizing system from the discharging power pack via the high-voltage lines through to the connected ionizing units. If the value falls below the high voltage of 4.2 kV_{AC} required for operation (corona inception voltage), the yellow signalling lamp on the housing lid lights up, and a signal is sent to the signalling socket K1 via a potential-free change-over contact (see Fig. 2).

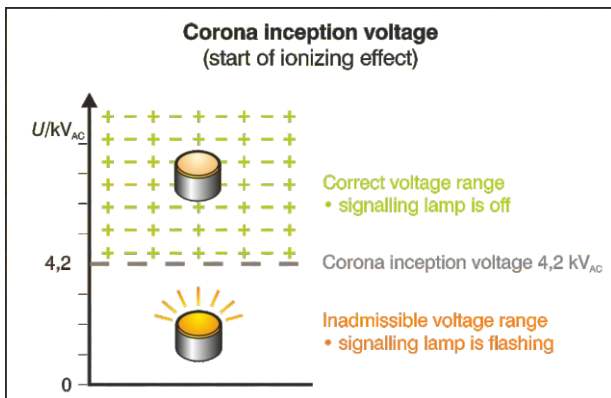


Fig. 2: corona inception voltage

In the event of a short circuit or spark formation within the ionizing system – e.g. due to faulty insulation – the **Multistat S** will switch off the output high voltage and send a relevant signal to signalling socket K1. By switching off the output high voltage, the ionizing system, the machine components and the product are protected against consequential damage. The **Multistat S** will also signal any mains failure via signalling socket K1.

Faulty operating conditions are signalled without delay, providing you with a permanent view of your ionizing process. Once the fault has been removed, the **Multistat S** can be put back into operation by pressing the mains switch directly on the unit or remotely using signalling socket K6.

The **Multistat S** is manufactured according to protection rating IP 54, protection class I according to VDE.

Properties

- Continuous function monitoring
- Signalling of faulty operating conditions
- Integration in machine control system or control centre
- 4 HV outputs supply 18 m connected length



Fig. 1: Multistat S

Application examples

The **Multistat S** can be integrated in a multitude of applications in combination with HAUG ionizing units:

Plastics processing industry:

Film/sheet extrusion, film/sheet processing, in the production of plastic pipes, sections, half shells and bars, on blow-moulding machines

Packaging industry:

Packaging machines, on filling machines, for the production of tubular bags

Graphics industry:

Folding machines, post-press

Electrical engineering industry:

PCB production

Pharmaceutical, food, cosmetics industry:

Packaging and filling plants

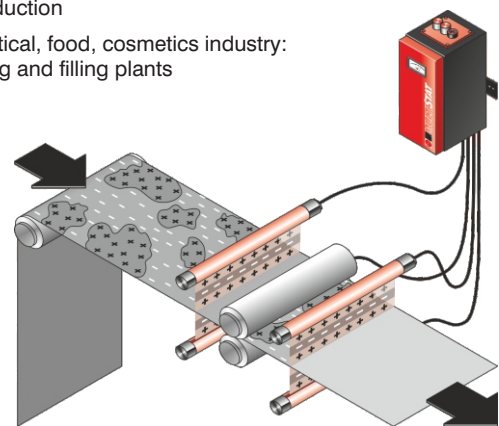


Fig. 3: Application example

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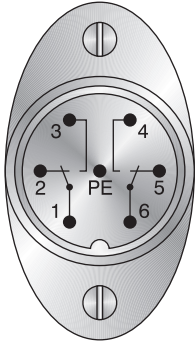
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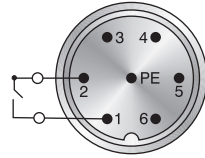
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signalling socket K1



signalling socket K6

Switching state table K1

Condition	Contacts closed	
High voltage ok; Mains ok	1 and 3	5 and 6
High voltage fault ($HV < 4,2 \text{ kV}_{AC}$)	1 and 3	4 and 6
Mains voltage fault	1 and 2	5 and 6

Switching state table K6

Condition	Contacts closed
Trigger reset	1 and 2

Multistat S

Technical data Multistat

Types: **Multistat S** (115 V) Order-No.: 01.7871.000
Multistat S (230 V) Order-No.: 01.7870.000
Multistat S (115 V) Order-No.: 01.7921.000
Multistat S (230 V) Order-No.: 01.7920.000
 CUL approved (UL and CSA conformal),
 test no.: E 189 151

Protection type: IP 54
 Protection class: I
 Supply voltage: $115 \text{ V}_{AC} / 230 \text{ V}_{AC}$; (50 – 60 Hz)
 Power input: approx. 80 VA
 Nominal output voltage: approx. 7 – 8 kV_{AC}
 Short-circuit output current: $I_k \leq 5 \text{ mA}$
 Capacity of signalling contacts: $24 \text{ V}_{AC} / 35 \text{ V}_{DC}$; max. 50 mA
 HV-terminals: 4
 Connectable length: max. 18 m
 (ionizing unit incl. HV-cable)
 Operating temperature: +5 °C to +45 °C
 Storage/transport temperature: -15 °C to +60 °C
 Weight: 5 kg
 Mains cable: 2.6 m
 (fixed to the device)

Subject to technical changes!

Accessories

Signalling cable K1, shielded
 5 m, incl. round plug Order-No.: 06.8941.000
 10 m, incl. round plug Order-No.: 06.8941.001
 20 m, incl. round plug Order-No.: 06.8941.002

Round plug Order-No.: X-0616
Angled plug Order-No.: X-5718

Signalling cable K6, shielded
 5 m, incl. round plug Order-No.: 06.8976.000
 10 m, incl. round plug Order-No.: 06.8976.001
 20 m, incl. round plug Order-No.: 06.8976.002

Round plug Order-No.: X-7807

