



# Operating Manual

**Model 900vs2  
High Voltage Sensor**



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# Introduction

In many industrial applications static control is so important that there is a need for a device to indicate that the equipment is working correctly. The Meech Model 900vs2 fulfils this need for Meech AC-powered equipment.

The 900vs2 is a high voltage sensor that connects to the Meech Model 904 or 905 Power Unit and monitors the high voltage output, displaying its status via LED's.



## Description

The best way to continuously monitor the operation of AC static eliminators is by verification of the high voltage output of the Power Unit. This is because static elimination equipment that becomes faulty (e.g. when it is dirty or damaged) will draw higher current from the Power Unit than normal and when the current drawn rises above 5mA, the 904 or 905 Power Unit will automatically shut down.

(This is a safety feature unique to the Meech Model 904 / 905). The ON/OFF rocker switch of the 904 or 905 Power Unit illuminates when the unit is connected to the mains electricity supply. If the high voltage side of the 904 or 905 shuts down as indicated above, the rocker switch will remain illuminated (showing that the mains supply is still present) but the static elimination equipment may not be functional.

The 900vs2 has been designed to detect such a condition and display / report this.

# Connections

The 900vs2 is connected to the Meech power supply by plugging the male jack plug of the 900vs2 into the socket found on the side wall of the 904/5 power unit.

The 900vs2 contains a rechargeable battery which is continuously charged when plugged into the 904/5 power unit ( it may be necessary to allow the battery to charge on initial connection to the 904/5 power supply).

When supplied, the battery contact of the 900vs2 is protect with a plastic strip. This needs to be removed prior to installation. Simply pull on the clear plastic strip, found protruding from the side of the 900vs2, to enable the unit.

# Operation

Under normal operation (no system faults) the green LED of the 900vs 2 will be continuously illuminated. If a fault occurs, due to damage and/or the ioniser becoming excessively dirty, the red LED of the 900vs2 will flash and the green LED will be extinguished.

If the 904/5 is powered off, the 900vs2 will indicate a fault and will be operating from its internal battery. e battery will provide 60 hours of running in this condition.

The 900vs2 also features internal connections so that the 900vs2 LED indication can be mirrored / relayed to a remote buzzer or light (not supplied).

These connections are accessible by removing the base plate and feeding a signal cable through the grommet found in the end wall of the case.

The base plate must be replaced before the unit is reconnected or switched on.

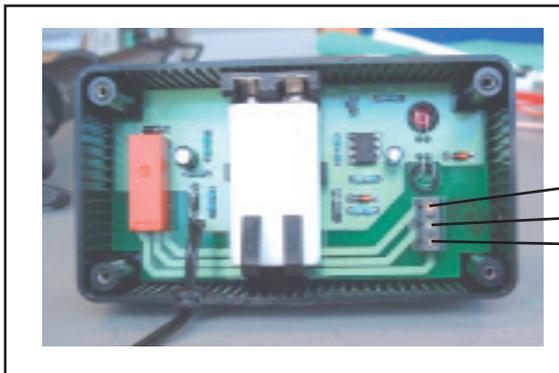
# Technical

The specification / functions of the components inside the 900vs2 are:

Connection / Input	:	From Meech Model 904/5 power supply via a 5.5/2.1 jack plug / socket
Connection cable	:	Twin 2m length
Dimensions	:	40 x 120 x 65 mm
Battery	:	Rechargeable 9V PP3 ( 120mAh normal)
Remote indicator connection:	:	Internal electrical strip connector ( max 2A, 250VAC). Change over relay contacts 250V, 2A

## Internal relay connections.

(Back removed)



**Output relay connections**

**Normally closed**  
**Common**  
**Normally open**

# CE Approval

A CE Declaration of Conformity for this product exists in respect of the Low Voltage Directive:72/23/EEC (“LVD”) & Electromagnetic Compatibility Directive: 89/336/EEC (“EMCD”)



# Health and Safety

Emission of Ozone: Considerably below international standard of 0.1ppm.









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