

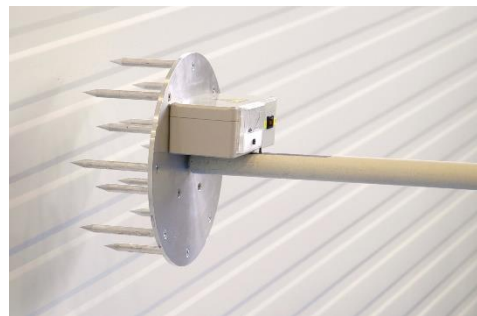
# Precipitation Static Simulator

The precipitation static simulator allows to verify the susceptibility of airborne systems such as antenna-connected receivers to electrostatic charges caused by precipitation static (p-static) effects, fluid flow, air flow, etc according to MIL-STD-464 or NATO AECTP-250 Leaflet 253.

The nominal voltage goes up to 70 kV and it can produce corona current up to 500  $\mu\text{A}$  and current density up to 7'000  $\mu\text{A}/\text{m}^2$ .

The polarity can be changed by swapping the high voltage module of the power supply (negative module is provided as an option). The polarity selection is automatic on the measurement box.

The system includes a test rod, an analogue current display, 18 meters of interconnecting cable and a high voltage power supply.



## SPECIFICATIONS

| Type                            | PST-70K   |
|---------------------------------|---|
| Standards                       | MIL-STD-464C or NATO AECTP-250 Leaflet 253                                |
| Voltage range                   | 0 to 70 kV  |
| Polarity                        | positive (negative as an option)  |
| Current measurement             | selectable: 500 $\mu\text{A}$ or 100 $\mu\text{A}$ full scale / $\pm 5\%$ |
| Maximum current                 | $\geq 500 \mu\text{A}$ @ 70 kV  |
| Approx. maximum current density | 7'000 $\mu\text{A}/\text{m}^2$  |
| Diameter of the corona disk     | 30 cm   |
| Surface of the corona disk      | 0.07 m <sup>2</sup>   |
| Cables length                   | about 18 m (60 feet)  |
| Rod length / weight             | 215 cm / 3.5 kg   |
| <b>HV power supply:</b>         |   |
| Maximum HV output rating        | 70 kV / 60 W  |
| Input power rating              | 230 Vac / 1 phase / < 300 W (115 Vac as an option)                        |
| Power supply dimensions         | 482.6 (19") x 43.7 x 482.6 mm (W x H x D)                                 |
| Power supply weight             | 7.7 kg  |

## Ordering information

| TYPE    | DESCRIPTION   |
|---------|---|
| PST-70K | P-Static test system according to NATO AECTP-250, including the test rod and the HV power supply, $U_{\text{max}} = 70 \text{ kV}$ , $I_{\text{max}} = 500 \mu\text{A}$ |