 <b>REMO-HSE</b>	<b>HV-Voltmeter 100P – Series</b>	<b>Datasheet</b>
	<b>High Voltage Meter</b>	



**Description:**

- High voltage voltmeter for measuring low-energy electrostatic high voltages.
- Measures DC voltages up to  $\pm 20\text{kV}$  (HV-20P),  $\pm 50\text{kV}$  (HV-50P),  $\pm 100\text{kV}$  (HV-100P)
- Handheld meter consisting of measuring instrument, high voltage probe, different tips and space charge screen

**Features:**

- Convenient Handling
- Pulse-stable measuring input
- Space charge screening reduces corona losses during measurement
- A high internal resistance ensures that the test current is small in order to protect the device under tests

- Digital display with automatic polarity indication and battery symbol
- Battery operation

**Options:**


- Customized measuring tips

**Typical Applications:**

- Electrostatic filters
- Electrostatic spraying installations
- Electrostatic sorters and separators
- Electrostatic chargers and dischargers
- Ion implanters
- Etc

hvm-20p-100p\_ds\_en\_01

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## Technical Specifications

<b>Measuring Range and Accuracy</b>			
Model:	HV – 20P *)	HV – 50P	HV – 100P
Nominal DC Voltage (steady):	0 to ±20kV	0 to ±50kV	0 to ±100kV
Maximal Voltage:	±20kV	±50kV	±100kV
Measuring Input:	Pulse-stable		
Input Resistance:	ca. 1GΩ	ca. 5GΩ	ca. 10GΩ
Resolution:	0,01kV	0,1kV	0,1kV
Accuracy:	Better than ± (5 % + 2 Digits)		
Display:	3 ½ digit with automatic polarity indication		

\*) indicates max. 19,99kV

<b>Environmental Data</b>	
Temperature Range:	0 to +45°C, data sheet values apply to temperatures between +15 and +35 °C
Storage Temperature:	-25 to +70°C
Humidity:	80% maximum relative humidity up to +31°C, reducing linearly to 50% at +45°C. Non-condensing (ref. EN61010-1).
Altitude:	0 to 2000 m NN
Classification:	IP40

<b>Mechanical Data</b>			
Model:	HV – 20P	HV – 50P	HV – 100P
Space Charge Screen:	∅ ca. 80mm	∅ ca. 80mm	∅ ca. 80mm
Total Length:	ca. 400mm	ca. 500mm	ca. 700mm
Weight:	ca. 0,7 kg	ca. 0,8 kg	ca. 0,9 kg

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# HV-Voltmeter 100P – Series

High Voltage Meter

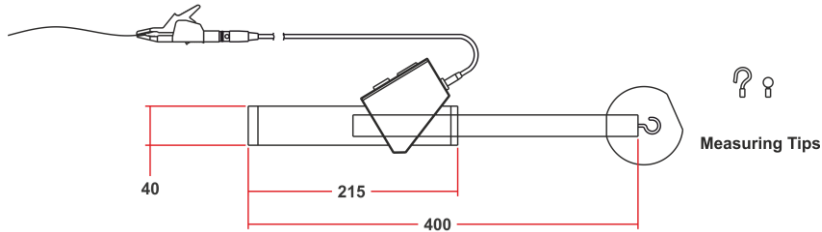
Datasheet

## Connections

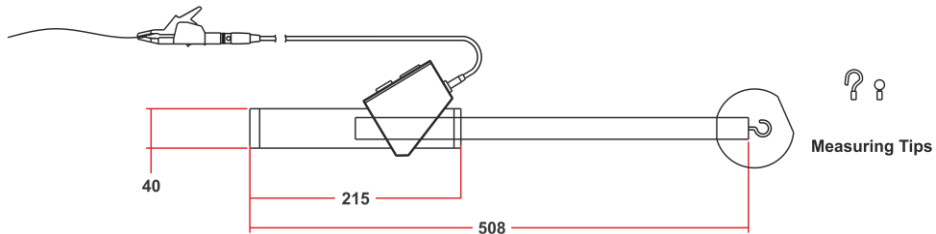
Measuring Tips:	Brass ball and hook
Earth Connection:	ca. 2m wire with dolphin clip
Battery Operation:	Neda 1604 9V or 6F 22 9V; ca. 50h continuous operation with 140mAh capacity

## Mechanical Drawings: HV-Voltmeter 100P-Series

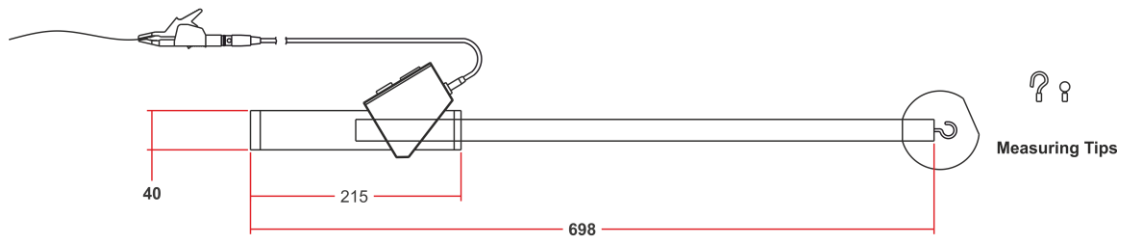
HV-Voltmeter 20P



HV-Voltmeter 50P



HV-Voltmeter 100P



Dimensions: +/- 3mm

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