

# VDH-01

Van der Hoofden test-head (IEC 62493)

## Main Features

- 20 kHz to 10 MHz frequency range
- Physical dimensions and electrical characteristics according to IEC 62493
- Protection network included
- Individual calibration
- Robust, rustproof aluminium construction
- Lightweight
- Automatic calculation of factor F (in conjunction with PES Emission Suite and PMM EMI receivers)



VDH-01 is a Van der Hoofden test-head designed to meet the specification of the IEC 62493 standard for the EMF assessment of lighting products in relations to human exposure, requiring the measurements of induced currents.

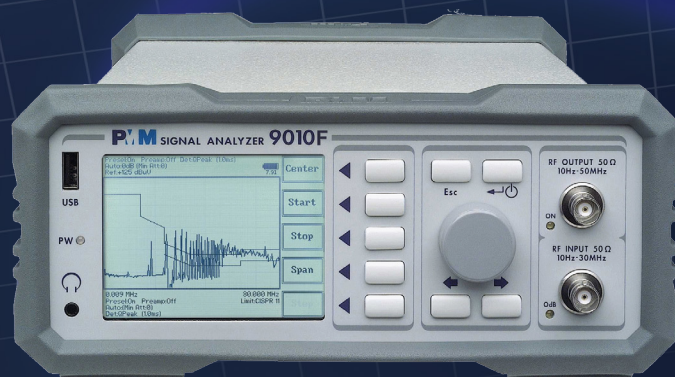
The test-head is composed by a conductive sphere of 210 mm diameter simulating the human head, by a connecting wire simulating the neck and by a passive network that matches the EMI receiver 50  $\Omega$  input impedance and prevents it from overloading. The VDH-01 can be used with any CISPR-compliant EMI receiver; when used in conjunction with the PMM EMI receivers, the measurement settings and computing functions are automatically performed by the PES Emission Suite software supplied with the receiver.

# VDH-01

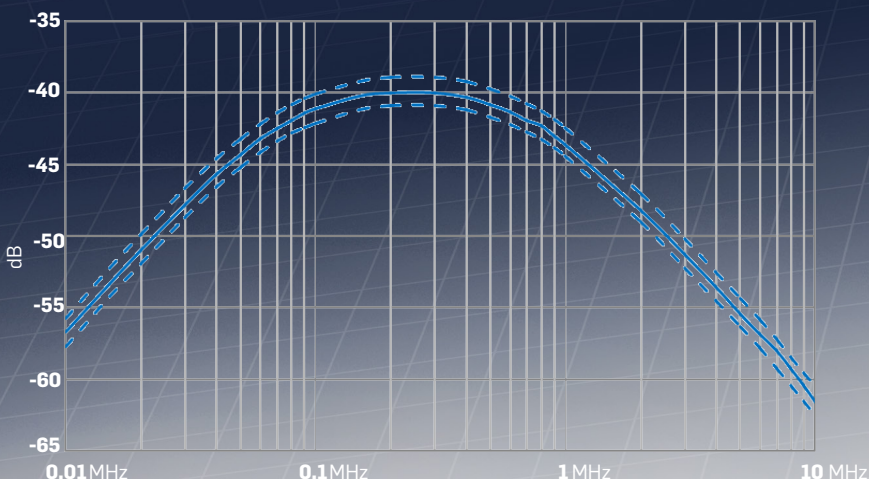
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## SPECIFICATIONS

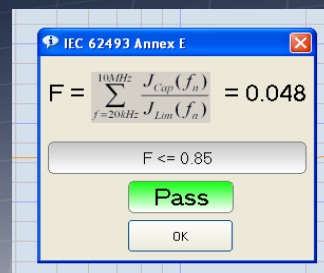
Frequency range	20 kHz to 10 MHz
Output impedance	50 Ω
RF input connector (sphere)	BNC female
RF output connector	BNC female
Sphere diameter	210 mm
Wire lenght	300 mm
Tripod mount	1/4"
Operating temperature	-10 to +45 °C
Storage temperature	-20 to +70 °C
Weight (without tripod)	1,7 Kg



9010F EMI receiver



Protection network calibration characteristic



Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1 0.02	0.15	220 Hz	P	100	200 Hz	0	OFF	ON	...	...
2 0.15	10	10 kHz	P	20	9 kHz	0	OFF	ON	...	...
3										

PES Emission Suite automatic test

## Ordering Information:

Van der Hoofden test-head VDH-01, with individual calibration report  
Includes: Protection network, BNC-BNC cable, Connecting wire (neck simulator), Operating Manual, Calibration Report.

## Optional accessories:

TR-01 Wooden tripod extensible 60 - 180 cm with antenna mounting adapter for fast horizontal to vertical polarization changing.

## Related Products

### Receivers

- 7010/00: EMI receiver 150 kHz to 1 GHz
- 7010/01: EMI receiver 9 kHz to 1 GHz
- 7010/02: EMI receiver 9 kHz to 30 MHz
- 9010: EMI receiver 10 Hz to 30 MHz
- 9010F: EMI receiver 10 Hz to 30 MHz
- 9010/03P: EMI receiver 10 Hz to 300 MHz
- 9010/30P: EMI receiver 10 Hz to 3 GHz
- 9010/60P: EMI receiver 10 Hz to 6 GHz

### Antennas

- BC-01: Biconical Antenna 30 to 200 MHz
- DR-01: Double-ridged horn antenna 6 to 18 GHz
- LP-02: Log Periodic Antenna 200 MHz to 3 GHz
- LP-03: Log Periodic Antenna 800 MHz to 6 GHz
- TR-01: Antenna Tripod
- Antenna Set AS-02 (BC01+LP02+TR01)
- Antenna Set AS-03 (BC01+LP02+LP03+TR01)
- RA01: Rod Antenna 9 kHz to 30 MHz
- RA01-HV: Rod Antenna 150 kHz to 30 MHz
- RA01-MIL: Rod Antenna 9 kHz to 30 MHz

### LISN

- L2-16B: single phase AMN, 16 A
- L3-32: 4 lines, 3-phase AMN, 32 A
- L3-64: 4 lines, 3-phase AMN, 63 A
- L3-64/690V: 4 lines, 3-phase AMN, 63 A
- L3-100: 4 lines, 3-phase AMN, 100 A
- L1-150M: single-path, 50 Ohm AMN, 150 A
- L1-150M1: single-path, 50 Ohm AMN, 150 A
- L1-500: single phase AMN, 500 A
- L3-500: 4 lines, 3-phase AMN, 500 A
- L2-D: Delta LISN for telecom, 2 A, 150 Ω
- SBRF4: RF Switching Box
- SHC-1/1000: Voltage probe, 1000 Vac, 35 dB
- SHC-2/1000: Voltage probe, 1000 Vac, 30 dB



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