

High-impedance voltage measurements

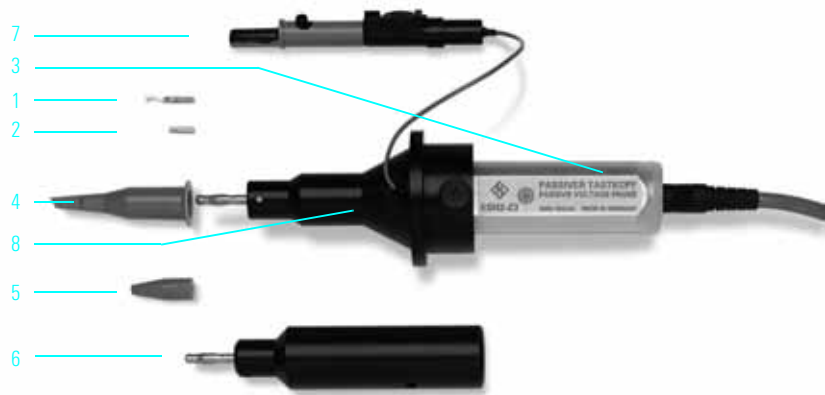
Active Voltage Probe ESH2-Z2, Passive Voltage Probe ESH2-Z3, Attenuator ESH2Z31

Shielded probes are used for high-impedance measurements of signals and interference on lines. They comprise highpass elements for decoupling low-frequency AC voltages.

Active Voltage Probe ESH2-Z2 is intended for RFI voltage measurements on lines **not** carrying AC supply voltage.

Passive Voltage Probe ESH2-Z3 (to CISPR 16-1 and VDE0876) is particularly suitable for measuring RFI voltages on high-level lines, e.g. lines carrying AC supply voltage.

Attenuator ESH2Z31 is used for determining the source impedance (to CISPR 16-2 and VDE0877 part 1/11.81) during measurements with ESH2-Z3.



Passive Voltage Probe ESH2-Z3 (3), hook tip (1), solder tip (2), spring tip (4), probe tip (5), Attenuator ESH2Z31 (recommended extra for ESH2-Z3 only) (6), earth cable (7) and AC voltage tip (for ESH2-Z3 only) (8) correspond to the accessories of Active Voltage Probe ESH2-Z2



Active Voltage Probe ESH2-Z2 with hook tip (1)

Specifications

	ESH2-Z2	ESH2-Z3
Frequency range	9 kHz to 30 MHz	9 kHz to 30 MHz
Voltage division ratio ¹⁾	10 dB	30 dB
Deviation of voltage division ratio from nominal value (Z_{out} of source 50 Ω ; for typical frequency responses see manual)	<1 dB	<-1 dB to +5 dB
Measurement range with Rohde&Schwarz test receivers and spectrum analyzers (average value indication, frequency-dependent, IF bandwidth 200 Hz)	-20 dB(μ V) to +120 dB(μ V)	0 dB(μ V) to +150 dB(μ V)
Input impedance	118 k Ω \pm 5% 8 pF	1.5 k Ω \pm 2% 9 pF (termin. into 50 Ω)
Max. input voltage (V_{rms})		
f \leq 63 Hz	100 V	250 V
63 Hz to 30 MHz	3 V	30 V

General data

Nominal temperature range	-10 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Power supply for ESH2-Z2	\pm 10 V \pm 1 V (\approx 15 mA)
Length of connecting cable	1.5 m
RF connector	BNC
Termination	50 Ω
Supply and coding (voltage division ratio)	12-contact Tuchel connector, male
Weight	200 g

Ordering information

Active Voltage Probe	ESH2-Z2	0299.7210.52
Passive Voltage Probe	ESH2-Z3	0299.7810.54
Accessories supplied		
Set of accessories		0241.0613.02
Probe tip		0241.0913.02
Recommended extras		
BNC Adapter	URV-Z	0241.1110.02
Attenuator (for ESH2-Z3)	ESH2Z31	0827.6513.02

¹⁾ Automatically considered in the display of Rohde&Schwarz test receivers and spectrum analyzers.