

## High-impedance voltage measurements

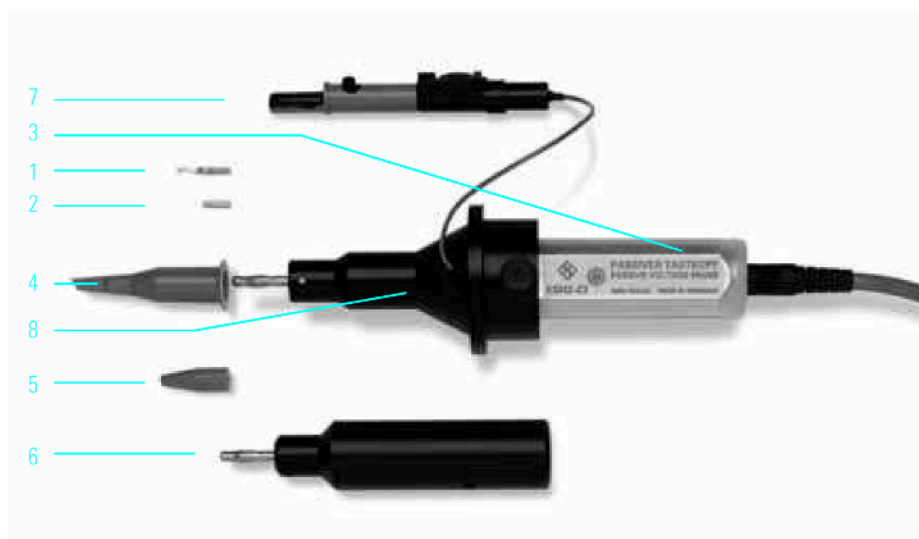
### Active Voltage Probe ESH2-Z2, Passive Voltage Probe ESH2-Z3, Attenuator ESH2Z31

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 <sup>1)</sup>	10 dB	30 dB
Deviation of voltage division ratio from nominal value ( $Z_{out}$ of source 50 $\Omega$ ; 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( $\mu$ V) to +120 dB( $\mu$ V)	0 dB( $\mu$ V) to +150 dB( $\mu$ V)
Input impedance	118 k $\Omega$ $\pm$ 5%    8 pF	1.5 k $\Omega$ $\pm$ 2%    9 pF (termin. into 50 $\Omega$ )
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 ( $\approx$ $\pm$ 15 mA)
Length of connecting cable	1.5 m
RF connector	BNC
Termination	50 $\Omega$
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
<b>Accessories supplied</b>		
Set of accessories		0241.0613.02
Probe tip		0241.0913.02
<b>Recommended extras</b>		
BNC Adapter	URV-Z	0241.1110.02
Attenuator (for ESH2-Z3)	ESH2Z31	0827.6513.02

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