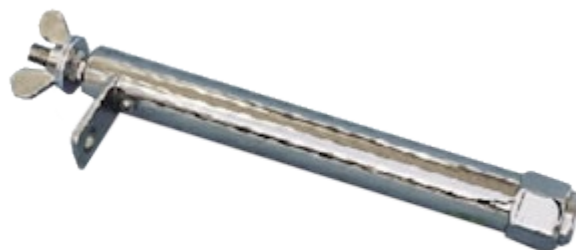




# SH-R SHUNTS

Tubular Impulse Current  
Measuring Shunt

*Datasheet*



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Current and voltage – our passion

## General Description

These shunts are used for the measurement of very high impulse currents in high-voltage test labs. The wave shape of the measured current can be displayed on a HAEFELY highest resolution impulse analysing system HiAS 744. The shunts consist of a metal cylinder with coupling flanges and a coaxial measuring connector.

Each resistance value is a separate shunt. The standard repetition rate allows measuring impulse currents up to 100 kA (voltage drop 500 V), and at reduced repetition rate up to 200 kA are possible (voltage drop 1000 V)

## Applications

- Impulse current measurement

## Scope of Supply

Set of shunts SH-R

- 1 Shunt X m $\Omega$  for X kA
- 1 Termination resistor (LEMO) 75  $\Omega$
- 2 Test reports (routine test: resistance measurement)

# Technical Data

General			
Type	SHR 0.005	SH R 0.01	SH R 0.02
Rated voltage drop $U_n$	500 V	500 V	500 V
Max. voltage drop $U_{max}$	1000 V	1000 V	1000 V
Rated peak current $I_n$	100 kA	50 kA	25 kA
Max. peak current $I_{max}$	200 kA	100 kA	50 kA
Resistance $R^{(1)}$	5 m $\Omega$	10 m $\Omega$	20 m $\Omega$
Resistance Accuracy	$\pm 20\%$	$\pm 20\%$	$\pm 20\%$
Partial response time $T_\alpha$	< 170 ns	< 170 ns	< 50 ns
Repetition rate at $U_n / I_n$	35 s	30 s	55 s
Repetition rate at $U_{max} / I_{max}$	140 s	120 s	220 s
Weight / shunt	3kg		
Dimensions	L 300 mm, $\varnothing$ 35 mm		
Accuracy on the resistance measurement	< $\pm 1\%$		
Accuracy at 8/20 $\mu$ s impulse currents	< $\pm 1$		

<sup>(1)</sup>Other values under request

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INSTRUMENTS



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