

CS18 Optional Extra

CAL-Q-U-ICP[®]



Application

- Calibration of charge, voltage and ICP[®] amplifiers; in conjunction with the optional extra PHASE also applicable to PHASE calibration of signal conditioners

Range of Use

- DKD calibration laboratories
- Departments of measuring instrument verification in research and industry
- Quality assurance in sensor manufacturing

Feature

- Frequency range 0.2 Hz ... 50 kHz

**Electrical
Calibration of
Signal Conditioners**

Performance Parameter

Charge Amplifier:

Frequency Range		Expanded Measurement Uncertainty ¹⁾ of the Transfer Coefficient Amplitude / Phase ²⁾	Measuring Range (Peak Value)
From	To		
		Class 1	
0.2 Hz	< 1 Hz	0.5 % / 0.75°	1 pC ... 10 nC
1 Hz	5,000 Hz	0.4 % / 0.5°	
> 5,000 Hz	10,000 Hz	0.4 % / 1.0°	
> 10,000 Hz	20,000 Hz	0.6 % / 2.0°	
> 20,000 Hz	50,000 Hz	1.0 %	

Voltage and ICP[®] Amplifier:

Frequency Range		Expanded Measurement Uncertainty ¹⁾ of the Transfer Coefficient Amplitude / Phase ²⁾	Measuring Range (Peak Value)
From	To		
		Class 1	
0.2 Hz	< 1 Hz	0.4 % / 0.75°	10 mV ... 10 V
1 Hz	20,000 Hz	0.3 % / 0.5°	
> 20,000 Hz	50,000 Hz	1.0 %	

¹⁾ Determined according to GUM (ISO Guide to the expression of uncertainty in measurement, 1995) with k = 2 (coverage factor)

²⁾ Only valid in combination with the optional extra PHASE