

CS18

Calibration System Option 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 0,4 Hz to 50 kHz

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	class 2	
0.4 Hz	< 1 Hz	0.5 % / 0.75°	1.0 % / 1.5°	1 pC to 10 nC
1 Hz	5,000 Hz	0.4 % / 0.5°	0.8 % / 1.0°	
> 5,000 Hz	10,000 Hz	0.4 % / 1.0°	0.8 % / 2.0°	
> 10,000 Hz	20,000 Hz	0.6 % / 2°	1.6 % / 4.0°	
> 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	class 2	
0.4 Hz	< 1 Hz	0.4 % / 0.75°	0.8 % / 1.5°	10 mV to 10 V
1 Hz	20,000 Hz	0.3 % / 0.5°	0.6 % / 1.0°	
> 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