## **COLLECTION OF CIG-OSM/IN DECISIONS**

Standard:	General	Sub clause:	General	Sheet no.	OSM/IN 004
				Page 1(3)	
Subject:	Instrument accuracy limits to be considered in CCA testing.	Key words:	Instrumen t accuracy limits	Meeting n	o. 7 6.27
Question:			nit is needed	to agree for	the save of test
Decision:	-	ment the CTL current decisio		251 and inc	lude it in
Explanato	ry notes: Annexed	CTL decision	No 251 text.		

Standard:	General	Sub clause: General	Sheet no. OSM/IN 004 Page 2(3)
Subject:	Instrument accuracy limits to be considered in CCA testing.	Key words:	Meeting no. 7 Agenda item no. 6.27

## <u>Instrument accuracy limits</u>

Measurement values stated in a CB Test Report shall be made with instruments with accuracies within the limits stated below.

<u>Parameter</u>	Range	<u>Instrument accuracy</u>
Voltage		
	dc up to 1 kHz	+ 1,5%
<u> </u>	1 kHz up to 5 kHz	± 2%
	5 kHz up to 20 kHz	± 3%
	20 kHz and above	<u>+</u> 5%
1000 V and above	do un to 20 kUz	+ 3%
1000 v and above	20 kHz and above	± 5%
Current		
	dc up to 60 Hz	<u>+</u> 1,5%
<u> </u>	60 Hz up to 5 kHz	+ 2,5%
	5 kHz up to 20 kHz	± 2,5 % ± 3,5%
	20 kHz and above	± 5%
5 A and above	dc up to 5 kHz	<u>+</u> 2,5%
	5 kHz up to 20 kHz	<u>+</u> 3,5%
	20 kHz and above	<u>+</u> 5%
Leakage current		
up to 30 mA	50/60 Hz	<u>+</u> 3,5%
30 mA and above		<u>+</u> 5%
Power (50/60 Hz)	up to 1W	<u>+</u> 20 mW
, , ,	above 1W and up to 3kW	<u>+</u> 3%
	above 3kW	<u>+</u> 5%
Power Factor (50/60 Hz)		± 0,05

Standard:	General	Sub clause: General	Sheet no. OSM/IN 004 Page 3(3)
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## Instrument accuracy limits

Frequency	up to 10 kHz	<u>+</u> 0,2%
Resistance	1m $Ω$ up to $100$ m $Ω$ and above $1$ M $Ω$	<u>+</u> 5%
	above 1 TΩ	<u>+</u> 10%
	for all other cases	<u>+</u> 3%
Temperature 12	below 100°C	<u>+</u> 2°C
	100°C up to 500°C	<u>+</u> 3%
Time	10 ms up to 200 ms	<u>+</u> 5%
	200 ms up to 1 s	<u>+</u> 10 ms
	1 s and above	<u>+</u> 1%
Linear dimensions	up to 1 mm	± 0,05 mm
	1 mm up to 25 mm	+ 0,1 mm
	25 mm and above	± 0,5%
Mass	above 10 g and up to 100 g	<u>+</u> 1%
	100 g up to 5 kg	<u>+</u> 2%
	5 kg and above	<u>+</u> 5%
Force	for all values	<u>+</u> 6%
Mechanical energy	for all values	<u>+</u> 10%
Torque		<u>+</u> 10%
Angles		<u>+</u> 1 degree
Relative humidity	30% to 95% RH	<u>+</u> 6% RH
Barometric air pressure		<u>+</u> 0,01 MPa
Gas & fluid pressure	for static measurement	<u>+</u> 5%

<sup>&</sup>lt;sup>1</sup> Thermocouple not included. Thermocouples type K, premium grade, are recommended.
<sup>2</sup> Not for measurements related to relative humidity.