

List of measuring ranges and uncertainty values of the reference equipment used in the calibration laboratory of Blanken Controls

Date: 02-11-2009

Measured quantity	Range	Best measurement capabilities (k=2)	Remarks
Temperature	-75 - 200°C	0,2°C	
	200 - 450°C	0,3°C	
	450 - 1000°C	2,5°C	
	-200 - 1300°C	0,4°C	Simulated (K/T/J/S/N..)
	-200°C - 400°C	0,0025°C	Pt100 simulated
	0 - 330mV	400ppm of output +350uV	Tc (thermocouple)
Pressure	0..-1 Barg	$2 \cdot 10^{-4}$.pe	
	0 - 2 Barg	$9 \cdot 10^{-5}$.pe + 1Pa	
	0 - 30 Barg	$1 \cdot 10^{-4}$.pe	
	1 - 60 Barg	$1,45 \cdot 10^{-4}$.pe + 0,0015 Bar	
	60 - 600 Barg	$1,6 \cdot 10^{-4}$.pe + 0,0160 Bar	
DC voltage	0 - 199,999999mV	4,5 ppm rdg + 0,5 ppm fs	
	0 - 1,99999999V	3,0 ppm rdg + 0,2 ppm fs	
	0 - 19,9999999V	3,0 ppm rdg + 0,2 ppm fs	
	0 - 199,999999V	4,5 ppm rdg + 0,2 ppm fs	
	0 - 1050,00000V	4,5 ppm rdg + 0,5 ppm fs	
AC Voltage (40 - 100Hz)	0 - 199,9999mV	110 ppm rdg + 20 ppm fs	
	0 - 1,999999V	85 ppm rdg + 10 ppm fs	
	0 -19,99999V	85 ppm rdg + 10 ppm fs	
	0 - 199,99999V	85 ppm rdg + 10 ppm fs	
	0 -1000V	95 ppm rdg + 10 ppm fs	
DC Current	0 - 199,99999uA	12 ppm rdg + 2 ppm fs	
	0 - 1,999999mA	12 ppm rdg + 2 ppm fs	
	0 - 19,999999mA	13 ppm rdg + 2 ppm fs	
	0 - 199,99999mA	36 ppm rdg + 4 ppm fs	
	0 - 1,9999999A	170 ppm rdg + 8 ppm fs	
	0 - 19,999999A	380 ppm rdg + 20 ppm fs	

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Measured quantity	Range	Best measurement capabilities (k=2)	Remarks
AC Current (10 - 10kHz)	0 - 199,9999uA	280 ppm rdg + 100 ppm fs	
	0 - 1,999999mA	280 ppm rdg + 100 ppm fs	
	0 - 19,999999mA	280 ppm rdg + 100 ppm fs	
	0 - 199,99999mA	250 ppm rdg + 100 ppm fs	
AC Current (10 - 2kHz)	0 - 1,9999999A	600 ppm rdg + 100 ppm fs	
	0 - 19,999999A	800 ppm rdg + 100 ppm fs	
	0 - 199,9999A	800 ppm rdg + 100 ppm fs	
Frequency Source	0,0005Hz - 20,000000Mhz	20 ppm	Frequency, -burst, period, ratio, time interval, pulse, pulsewidth, phase, duty
Frequency Measured	0,001Hz - 300,000000Mhz	5.10 ⁻⁶	
Resistance	0 - 1,999999Ω	15 ppm rdg + 2 ppm fs	
	0 - 19,99999Ω	9 ppm rdg + 0,7 ppm fs	
	0 - 199,9999Ω	7,5 ppm rdg + 0,25 ppm fs	
	0 - 1,999999kΩ	7,5 ppm rdg + 0,25 ppm fs	
	0 - 19,99999kΩ	7,5 ppm rdg + 0,25 ppm fs	
	0 - 199,9999kΩ	7,5 ppm rdg + 0,25 ppm fs	
	0 - 1,999999MΩ	15 ppm rdg + 0,5 ppm fs	
	0 - 19,99999MΩ	15 ppm rdg + 0,5 ppm fs	
	0 - 199,9999MΩ	60 ppm rdg + 5 ppm fs	
	0 - 1,999999GΩ	150 ppm rdg + 50 ppm fs	
	0 - 19,99999GΩ	525 ppm rdg + 500 ppm fs	
	350,0MΩ - 99,99GΩ	1% rdg + R'	
	100,00 - 999,9GΩ	2% rdg + R'	
	1,0000 - 10,000TΩ	3% rdg + R'	
Mass	0 - 600kg	Class M1	
Force (Nm)	0,2 - 1100Nm	0,25% rdg	
Relative humidity	0% - 95% rel.	0,5% abs	
Gasmixtures in several concentrations	O2 in N2	1%	
	CO in N2	1%	
	CO2 in N2	1%	
	NO in N2	1%	
	NO2 in N2	1%	
	CH4 in air	2%	

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ISO 9001
ISO 14001
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