



Accreditation Scope

Master Systems Standardization Lab LLC, NAL 132
Calibration Laboratory, (ISO/IEC 17025:2017)

Al Mussafah Industrial - Abu Dhabi, UAE

Issue Date: 09-01-2022

Expiry Date: 08-01-2025

Issue No: 04

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Pressure (Hydraulic)	Pressure Gauges Pressure Transducers	(0 to 10) bar	0.1% x I	MS-AUH-WP-041:2018, Based on DKD-R 6-1:2014	P
		(> 10 to 100) bar	0.05% x I		
		(> 100 to 1000) bar	0.05% x I		
Electrical	DC Voltage (Source)	(0 to 1050) V	0.01 % x I	MS-AUH-WP-042:2018, Based on EURAMET cg-15:2015	P
		DC Current (Source)	(0 to 200) mA		
	(0.2 to 22) A		0.1 % x I		
	AC Voltage (Source)	(1 to 1050) V (at 45 Hz to 1 kHz)	0.12 % x I		
		(1 to 20) V (at 1 kHz to 20 kHz)	0.2 % x I		
	AC Current (Source)	20 µA to 22 A (at 50 Hz to 200 Hz)	0.32 % x I		
	Resistance (Source)	10 Ω	0.059 % x I		
		100 Ω	0.011 % x I		
		1 kΩ	0.007 % x I		
		10 kΩ	0.007 % x I		
		100 kΩ	0.007 % x I		
1 MΩ		0.017 % x I			
10 MΩ	0.12 % x I				
100 MΩ	1.2 % x I				
Electrical	Frequency (Source)	(0.1 to 1000) kHz	0.002 % x I	MS-AUH-WP-042:2018, Based on EURAMET cg-15:2015	P
		(0.001 to 1) MHz	0.002 % x I		
	Capacitance (Source Parameter)	10 nF	0.2 % x I		
		20 nF	0.4 % x I		
		50 nF	0.3 % x I		
		100 nF	0.3 % x I		
		1 µF	0.3 % x I		
END					

I = Indicated values of UUC