PRESYS
Instrumentos e Sistemas Ltda.
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CAL 0193

Accreditation No.	**193**
Accreditation Date	**10/05/2002**
CURRENT ACCREDITATION	**Click here for more information.**
Last Scope Review	**08/11/2024**
Company Name	**PRESYS INSTRUMENTS AND SYSTEMS LTDA.**
Name of Laboratory	**PRYMELAB LABORATORY**
Situation	Active
Address	RAMALHO ORTIGÃO AVENUE, 315
Neighborhood	GUMERCINDO VILLAGE
POCKET	04130010
City	SÃO PAULO
UF	SP
Telephone	(11) 5073 1900
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Calibration Service Group	TEMPERATURE AND HUMIDITY
Technical Manager	Vinicius José Gomes Nunes
Email	vinicius@presys.com.br

SCOPE OF ACCREDITATION - ABNT NBR ISO/IEC 17025 - CALIBRATION

Service Description	Parameter, Range and Method	Calibration and Measurement Capability (CMC)
(Carried out at permanent facilities)		
TEMPERATURE MEASURING INSTRUMENTS		
Temperature Meter for Thermocouple Sensor	- 250 ºC to <- 100 ºC	0.6 ºC
	- 100 ºC to < 100 ºC	0.07 ºC
	100ºC to 1000ºC	0.02 ºC
	> 1000 ºC to 1370 ºC	0.09 ºC
	> 1370 ºC to 2300 ºC	0.10 ºC
	Comparison Method with Standard Multimeter	
Temperature Meter for Thermoresistive Sensor or Other Sensors	-200 ºC to 600 ºC	0.03 ºC
	> 600 ºC to 800 ºC	0.05 ºC
	Comparison Method with Standard Multimeter	

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THERMAL MEDIA

Thermostatic Bath	Stability Parameter	
	- 55 °C to 180 °C	0.04 °C
	> 180 °C to 420 °C	0.10 °C
	Parameter: Uniformity	
	- 55 °C to 180 °C	0.04 °C
	> 180 °C to 420 °C	0.10 °C
	Parameter: Control Temperature Deviation	
	- 55 °C to 180 °C	0.04 °C
	> 180 °C to 420 °C	0.10 °C
	Comparison Method with Reference Thermometer and Euramet cg.13	
Temperature Calibrator with Block	Parameter: Stability	
	- 80 °C to 400 °C	0,20 °C
	> 400 °C to 660 °C	0,60 °C
	> 660 °C to 1100 °C	1,5 °C
	Parameter: Uniformity	
	- 80 °C to 400 °C	0,20 °C
	> 400 °C to 660 °C	060 °C
	> 660 °C to 1100 °C	1.5°C
	Parameter: Control Temperature Deviation	
	- 80 °C to 400 °C	0,20 °C
	> 400 °C to 660 °C	0.60 °C
	> 660 °C to 1100 °C	1.5°C
	Comparison Method with Reference Thermometer and Euramet cg.13	

SIMULATORS (CALIBRATORS)

Thermocouple Simulator	- 250 °C to <- 100 °C	0.6 °C
	- 100 °C to 700 °C	0.02 °C
	> 700 °C to 1000 °C	0.04 °C
	> 1000 °C to 1300 °C	0.06 °C
	> 1300 °C to 2100 °C	0.09 °C
	> 2100 °C to 2300 °C	0.20 °C
	Comparison Method with Standard Multimeter	
Resistance Thermometer Simulator	-200°C to 600°C	0.03 °C
	> 600 °C to 800 °C	0.05 °C
	Comparison Method with Standard Multimeter	

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CONTACT THERMOMETRY

Temperature Meter with Thermocouple Sensor	- 55°C to 0°C	0,25 °C
	> 0 °C to 157 °C	0,23 °C
	> 157 °C to 232 °C	0,16 °C
	> 232 °C to 420 °C	0,15 °C
	> 420 °C to < 660.323 °C	0,14 °C
	660,323 °C	0,11 °C
	> 660.323 °C to < 961.78 °C	0,11 °C
	> 961.78 °C to 1100 °C	0.30 °C
	961,78 °C	0,10 °C
	Comparison method with resistance thermometer / reference thermocouple.	
	Comparison method with reference thermometer.	
	Comparison method with thermometric fixed points.	
Temperature Meter with Thermoresistive Sensor or Other Sensors	- 55 °C to - 40 °C	0.20 °C
	> -40°C to 0°C	0.011 °C
	0 °C	0.015 °C
	> 0°C to 90°C	0.010 °C
	> 90 °C to 156 °C	0.015 °C
	> 156 °C to 232 °C	0.016 °C
	> 232 °C to 420 °C	0.019 °C
	> 420 °C to 661 °C	0.029 °C
	Comparison method with resistance thermometer / reference thermocouple.	
	Comparison method with reference thermometer.	
	Comparison method with thermometric fixed points.	

Basic Metals Thermocouple	- 55 °C to 0 °C	0.20 °C
	> 0°C to 200°C	0.10 °C
	> 200 °C to 350 °C	0.20 °C
	> 350 °C to 500 °C	0.50 °C
	> 500 °C to 650 °C	0.60 °C
	> 650 °C to 900 °C	0.60 °C
	> 900 °C to 1100 °C	0.75 °C
	Comparison method with resistance thermometer / reference thermocouple.	
	Comparison method with reference thermometer.	
Noble Metal Thermocouple	- 50°C to 0°C	0,25 °C
	> 0 °C to 157 °C	0,23 °C
	> 157 °C to 232 °C	0,16 °C
	> 232 °C to 420 °C	0,15 °C
	> 420 °C to < 660.323 °C	0,14 °C
	660,323 °C	0,11 °C
	> 660.323 °C to < 961.78 °C	0,11 °C
	961,78 °C	0,10 °C
	> 961.78 °C to 1100 °C	0,30 °C
	Comparison method with resistance thermometer / reference thermocouple.	
	Comparison method with reference thermometer.	
	Comparison method with thermometric fixed points.	

Thermoresistance	- 55 °C to - 40 °C	0,20 °C
	> -40 °C to < -38.829 °C	0.011 °C
	-38,8290 °C	0,0010 °C
	> -38.829 °C to < 0 °C	0,011 °C
	0 °C	0,015 °C
	0,0100 °C	0,0005 °C
	> 0.010 °C to < 29.7646 °C	0,010 °C
	29,7646 °C	0,0010 °C
	> 29.7646 °C to 90 °C	0,010 °C
	> 90 °C to 156 °C	0,015 °C
	> 156 °C to < 231.928 °C	0,016 °C
	231,9280 °C	0,0015 °C
	> 231.928 °C to < 419.527 °C	0,019 °C
	419,5270 °C	0,0020 °C
	> 419.527 °C to < 660.323 °C	0,027 °C
	660,323 °C	0,005 °C
	Comparison method with reference resistance thermometer	
	Comparison method with thermometric fixed points	

Comments:

1. Measurement and Calibration Capability (CMC) refers to the lowest uncertainty that the Laboratory is able to obtain, with a coverage probability or confidence level of approximately 95%. If the laboratory uses more than one method to perform a given calibration or measurement, the CMC will refer to the method by which the laboratory obtains the lowest measurement uncertainty. (See NIT-Dicla-021)
2. The CMC identified by an asterisk (*) does not include all contributions from the calibrated instrument or standard or the measured device.
3. The Laboratory may declare in its calibration certificates, measurement uncertainties greater than its CMC, due to contributions relative to the properties or characteristics of the standard or calibrated measuring instrument.