PRESYS Instrumentos e Sistemas Ltda.
Rua Luiz da Costa Ramos 260
Sao Paulo, SP, Brazil. Zip: 04157-020.
Phone: + 55 11 3056-1900
sales@presys.com.br
www.presys.com.br

CAL 0193

Accreditation No.	**193**
Accreditation Date	**05/10/2002**
CURRENT ACCREDITATION	Click here **for more information.**
Last Scope Review	**7/9/2021**
Corporate Name	**PRESYS INSTRUMENTOS E SISTEMAS LTDA.**
Laboratory Name	**PRYMELAB LABORATORY**
Situation	Active
Address	AV. RAMALHO ORTIGÃO, 315
Neighborhood	VILA GUMERCINDO
Zip code	04130010
City	SÃO PAULO
state	SP
Telephone	(11) 5073 1900
Fax	(11) 5073 3366

Calibration Service Group	TEMPERATURE AND HUMIDITY
Technical manager	Vinicius Jose Gomes Nunes
Email	vinicius@presys.com.br

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

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

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THERMAL MEDIA

Thermostatic Bath	Stability Parameter	
	- 55ºC to 180ºC	0.04°C
	> 180ºC to 420ºC	0.10°C
	Parameter: Uniformity	
	- 55ºC to 180ºC	0.04°C
	> 180ºC to 420ºC	0.10°C
	Parameter: Control Temperature Deviation	
	- 55ºC to 180ºC	0.04°C
	> 180ºC to 420ºC	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 up to 660 °C	0.60°C
	> 660 °C up to 1100 °C	1.5°C
	Parameter: Uniformity	
	- 80 °C to 400 °C	0.20°C
	> 400ºC to 660ºC	060°C
	> 660ºC to 1100ºC	1.5°C
	Parameter: Control Temperature Deviation	
	- 80 °C to 400 °C	0.20°C
	> 400ºC to 660ºC	0.60°C
	> 660ºC to 1100ºC	1.5°C
	Comparison Method with Reference Thermometer and Euramet cg.13	

SIMULATORS (CALIBRATORS)

Thermocouple Simulator	- 250ºC to < - 100ºC	0.6°C
	- 100ºC to 700ºC	0.02°C
	> 700ºC to 1000ºC	0.04°C
	> 1000ºC to 1300ºC	0.06°C
	> 1300ºC to 2100ºC	0.09°C
	> 2100ºC to 2300ºC	0.20°C
	Comparison Method with Standard Multimeter	
Thermoresistance Simulator	-200ºC to 600ºC	0.03°C
	> 600ºC to 800ºC	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 up to 1100°C	0.30°C
	961.78°C	0.10°C
	Comparison method with resistance thermometer / reference thermocouple.	
	Method of comparison with reference thermometer.	
	Comparison method with thermometric fixed points.	
Temperature Meter with Thermosistive 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.	
	Method of comparison with reference thermometer.	
	Comparison method with thermometric fixed points.	

Base Metal Thermocouple	- 55ºC to 0ºC	0.20°C
	> 0°C to 200°C	0.10°C
	> 200ºC to 350ºC	0.20°C
	> 350ºC to 500ºC	0.50°C
	> 500ºC to 650ºC	0.60°C
	> 650ºC to 900ºC	0.60°C
	> 900ºC to 1100ºC	0.75°C
	Comparison method with resistance thermometer / reference thermocouple.	
	Method of comparison 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 up to 1100 °C	0.30°C
	Comparison method with resistance thermometer / reference thermocouple.	
	Method of comparison 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	0.0019°C
	> -38.829 °C to < 0 °C	0.011°C
	0°C	0.015°C
	0.0100°C	0.0010°C
	> 0.010 °C to < 29.7646 °C	0.010°C
	29.7646°C	0.0013°C
	> 29.7646 °C up to 90 °C	0.010°C
	> 90 °C up to 156 °C	0.015°C
	> 156 °C to < 231.928 °C	0.016°C
	231.9280°C	0.0038°C
	> 231.928 °C to < 419.527 °C	0.019°C
	419.5270°C	0.0051°C
	> 419.527 °C to < 660.323 °C	0.027°C
	660.323°C	0.015°C
	Comparison method with reference thermoresistance	
	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.