



Certificate Number
CAL221868

Report of Calibration

Manufacturer:	ESI	Asset No:	G202088930104
Model No:	SR104	Description:	Standard Resistor - 10 kOhm
Serial No:	G202088930104	Procedure Used:	PICP-10195 Rev. 1.0
Received Date:	3/9/2020	Calibration Date:	3/17/2020

Process Instruments, Inc. certifies that the above instrument has been calibrated using standards traceable through the National Institute of Standards and Technology (NIST) or other national metrology institutes, or to accepted values of natural physical constants, or derived by the ratio type of self-calibration techniques, to the SI.

The reported uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. The reported uncertainty is valid only at the time of test and does not take into account any effects such as long-term drift, transportation or other factors that may affect the stability of this device.

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STANDARDS USED

ID	Description	Due Date
140078	Hart Scientific 2564 Thermistor Scanner Module	3/31/2021
140132	Measurements International 6010B Current Comparator Resistance Bridge	8/31/2020
140157	GE Thermometrics S25 Standard Thermistor	3/31/2021
140161	ESI SR104 Standard Resistor - 10 kOhm	1/31/2021

Notes:

Laboratory Environment:

Temperature: 23.65 °C
Humidity: 28.5 %RH

Approved By: 
Karl W. Klevens Quality Manager

P.O. Number: CC

This standard resistor was calibrated by comparing it to a primary reference standard resistor of similar value using a substitution method. The resistor was tested while in an air bath at 23.00°C ($\pm 0.05^\circ\text{C}$). An automatic current comparator resistance bridge with a thousand ohm check standard alternately measured the primary reference and the unknown resistor. The results reported are the mean of several measurements taken over several days. The individual measurements are the mean of the last 25 measurements of a run of 30 measurements taken for each resistor. All values are expressed in terms of the SI 1990 values of voltage and/or resistance and in terms of the ITS-90.

<u>Measured Value</u>	<u>Pressure</u>	<u>Uncertainty</u>
10000.0041 Ω @ 0.30 mADC	99.55 kPa	0.15 ppm

End of Measurement Results