



CERTIFICATE OF VALIDATION FOR PEX

Document Number	VER-PEX-xxx, v3.0.3
Document Date	MMMM DD, YYYY
Document Type	Validation of Accuracy
Unit Description	External Probe
Units Covered	PEX

Temperature Accuracy

PEX reads temperature with a stated accuracy of $\pm 0.45^{\circ}\text{C}$ from -35°C to $+20^{\circ}\text{C}$, $\pm 0.55^{\circ}\text{C}$ from $+20^{\circ}\text{C}$ to $+40^{\circ}\text{C}$, $\pm 0.80^{\circ}\text{C}$ from $+40^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ and $\pm 1.00^{\circ}\text{C}$ from $+60^{\circ}\text{C}$ to $+80^{\circ}\text{C}$. Verigo individually tests and calibrates 2% of all PEX units at the time of manufacture to ensure that accuracy specifications are met. All calibrations are performed against temperature standards traceable to the National Institute of Standards and Technology (NIST). All calibrations are performed using equipment that is calibrated on a regular basis by an ISO/IEC 17025 laboratory.

Sampling

Temperature calibrations are performed using the comparison method. A Lab Facility IL-255-D Labcal PRO with PT100 Probe is used as the reference. The devices' external probes and the reference probe are placed in an aluminum equalization block and immersed in a Thermo Scientific PC200-A40 circulating bath containing an ethylene glycol solution. Temperature calibration checks are performed at -35°C , -20°C , 0°C , 20°C , 40°C , 60°C and 80°C .

Accuracy Statement

Verigo certifies that PEX units listed below have been batch tested and calibrated to meet or exceed the published specifications for temperature measurement. This certificate shall not be reproduced, except in full, without the written consent of Verigo.

Jay Cox
Manufacturing Engineer



All PEx units with Serial Numbers in the following range(s)	Date of Calibration	Calibration Pass/Fail
XXXXXX - XXXXXX	MMMM YYYY	PASS

