

Sensor Calibration Record

Temperature

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Instrument Serial Number	30461
Sensor Type	PRT
Sensor Serial Number	2163
Sensor Range	-5°C to +35°C
Certificate Number	2021-030

Calibration Equipment used		
Instrument	Type	Serial No
Temp Bridge	ASL F17A	1204-2/3/8
PRT	Rosemount 162CE	1736

Stage 1: Obtain Calibration data and Polynomial fit

Counts nnnn	Bath temp °C [IPTS 90]	Polynomial fit for raw data Order 2		Polynomial calculations		Acceptable Error	Pass/Fail
		Parameter	Value	Calc Temp °C [IPTS 90]	Temp Error °C [IPTS 90]		
7219344	2.008	a0	-2.575912E+02	2.008	0.000	±0.01	Pass
7679653	18.534	a1	3.601268E-05	18.534	0.000	±0.01	Pass
8132923	34.804	a2	-7.459805E-15	34.804	0.000	±0.01	Pass

As Received Check

Existing Cal #088		
8.835900e-14;3.465271e-5;-2.528282e2		
Calc Temp	Error	Pass/Fail
1.947	-0.061	Fail
18.504	-0.030	Fail
34.844	0.040	Fail
Correction Equation (Old to New)		
#WERT!		

Stage 2: Enter calibration string: #087;-7.459805E-15;3.601268E-05;-2.575912E+02

Stage 3: Post Calibration Check

Reading °C [IPTS 90]	Bath temp °C [IPTS 90]	Error [Reading- Actual] °C [IPTS 90]	Acceptable Error	Pass/Fail
2.007	2.006	0.001	±0.01	Pass


Name	KI.Schollmeyer
Date	23.11.21
Signed	

Kalibrierzertifikat Nummer:
Calibration Certificate Number:

2021-019

Dieses Dokument bestätigt, dass das unten angeführte Gerät nach Hersteller Standard-Prozeduren mit Messgeräten, die nach DAkkS oder nationalen Standards kalibriert sind, kalibriert wurde.

This document certifies that the instrument detailed below has been calibrated according to Manufacturer Standard Procedures, using equipment with calibrations traceable to DAkkS (Germany) or National Standards.

Gerät: <i>Instrument Type:</i>	Valeport miniSVS-T
Seriennummer: <i>Serial Number:</i>	30461
Bearbeitet von: <i>Calibrated by:</i>	Klaus Schollmeyer
Datum: <i>Date:</i>	26.11.2021
Unterschrift: <i>Signed:</i>	

Qualitätsprüfzertifikat / Quality Test Certificate
nach / according to DIN 55350 Part 18 – 4.2.1

Ausführliche Informationen zu den Ergebnissen der Kalibrierprozeduren der einzelnen installierten Sensoren sind in separaten Dokumenten verfügbar. Die Kalibrierzusammenfassung soll dem Gerät beigelegt sein.

Full details of the results from the calibration procedure applied to each fitted sensor are available in separate documents. This summary certificate should be kept with the instrument.

Instrument Serial Number	30461
Transducer Type. mm	50
Transducer Ser No	79945
PCB Part No	0650505C
PCB Ser No	38946
Processor Firmware Version	0650713B5
FPGA Firmware Version	0650714C
Certificate Number	2021-030

Calibration Equipment used		
Instrument	Type	Serial No
Temp Bridge	ASL F17A	1204-2/3/8
PRT	Rosemount 162CE	4956

Stage 1: First order fit

Temp °C90	SoS from Bilaniuk & Wong m/s	Measured ToF nsec*100	Coefficients	Calc SoS from coefficients m/s	Error (Calc - True) m/s	Acceptable Error m/s	Pass/Fail
2.0285	1412.371	7455015	3.850270E+05	1412.371	0.000	±0.001	Pass
15.0815	1466.228	7195323	1.001457E+07	1466.228	0.000	±0.001	Pass

Stage 2: Enter calibration string

#022;10014572;385027

Stage 3: Check point

Temp °C90	Actual SoS m/s	Measured SoS m/s	Error SoS Reading: Actual m/s	Acceptable Error m/s	Pass/Fail
15.0805	1466.225	1466.223	-0.002	±0.005	Pass

Name: KI.Schollmeyer
 Date: 25.11.2021
 Signature: 