

CERTIFICATION OF ACCURACY

Onset Computer Corporation
470 MacArthur Blvd., Bourne, MA 02532
Tel: (508) 759-9500 FAX (508) 759-9100 www.onsetcomp.com

Onset Computer Corporation certifies that the accuracy of temperature measurement made by the data logger system named below has been observed either by comparison with a Standard Reference Material (SRM) certified by the National Institute of Standards and Technology (NIST), or by comparison with instrumentation traceable through an unbroken chain to a common calibration source maintained by NIST. This certification is made in compliance with the requirements set forth by the International Organization for Standardization in standard; ISO10012-1:1992(E).

Software:	HOBOWare (PC)	Version:	2.2		
Data Logger Part Number:	U12-013	Serial Number:	981993		
Channel 1 Part Number:	internal	Serial Number:	does not apply	Accuracy Class:	F1
Channel 2 Part Number:	not applicable	Serial Number:	does not apply	Accuracy Class:	
Channel 3 Part Number:	not applicable	Serial Number:	does not apply	Accuracy Class:	
Channel 4 Part Number:	not applicable	Serial Number:	does not apply	Accuracy Class:	

TEMPERATURE POINT (1)

Target Temp (°C):	0	Temperature Source:	Oil bath	Reference Instrument:	TE1-2098
			Channel 1		
Reference Temperature (°C):	+0.245				
Observed Temperature (°C):	+0.329				
Observed Accuracy (°C):	0.084				
Specified Accuracy (+/-°C):	0.32				
Passed / Failed:	PASS				

TEMPERATURE POINT (2)

Target Temp (°C):	25	Temperature Source:	Oil bath	Reference Instrument:	TE1-4047
			Channel 1		
Reference Temperature (°C):	24.997				
Observed Temperature (°C):	25.162				
Observed Accuracy (°C):	0.165				
Specified Accuracy (+/-°C):	0.31				
Passed / Failed:	PASS				

TEMPERATURE POINT (3)

Target Temp (°C):	50	Temperature Source:	Oil bath	Reference Instrument:	TE1-4047
			Channel 1		
Reference Temperature (°C):	50.007				
Observed Temperature (°C):	50.094				
Observed Accuracy (°C):	0.087				
Specified Accuracy (+/-°C):	0.35				
Passed / Failed:	PASS				

SAMPLE CERTIFICATE

This certificate may not be reproduced except in full, without the written approval of Onset Computer Corporation.

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TE1-2098 is a Kaye model # X3025, serial # 30403, last calibrated 2/21/06 Onset document # 908-N.
TE1-4047 is a Kaye model # M2806/IRTD-500, serial # 90147, last calibrated 3/9/06, Onset document # 4049-H.
Between calibrations, the reference instruments are periodically checked for accuracy in an ice bath.

The uncertainty of measurement made by the reference instrument(s) as compared to the actual temperature at the sensor of the logger is documented in Onset Document 4048. The maximum expected combined uncertainty has been determined to be; +/- 0.091° C. There is additional uncertainty due to the resolution of the particular Onset product being observed and is equal to one half of its resolution at a particular temperature. This additional uncertainty has been included in the calculation of the 'Specified Accuracy' of the data logger.

There is no statistical evidence to presuppose a drift of accuracy within this data logger and sensor while used within the specified operating environment. The user should evaluate the deployment conditions and project accuracy requirements to determine a reasonable confirmation interval. Otherwise, Onset recommends an annual recertification of accuracy.

Report Number: 13928
Procedure Used: 8405
Form Number: 3953

Order Number:
RMA Number:
Company Name:

Filing Date: 5/22/2006
Laboratory Conditions: within limits
Logger Status: new logger

Special Notes:

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Certified by:

Observations performed by:

Diane Enos, Quality Assistant

Don Macleod

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