



Y990-0156 Temperature Calibration Kit 110V

The temperature calibration module is an optional accessory that automatically calibrates the temperature of **Computrac® MAX® 4000XL** moisture analyzers to factory standards. It is particularly valuable to ISO 9000 companies that must maintain accurate records of the calibration of test equipment to traceable standards, as well as companies that need to maintain and document the correlation of multiple MAX® analyzers.



Dimensions	13.5" L x 9.4" W x 4.4" H 34.3 cm L x 23.9 cm W x 11.2 cm H
Weight	2.75 lb / 1.25 kg
Temperature Range	50°C to 250°C
Standards	NIST Traceable RTD
Certifications	UL, CSA
Components	Temperature Calibration Disk Electronic Interface Serial Interface Cable DC Power Supply and Cable (available in 110V or 220V) Hard-side Carrying Case

The kit can verify and calibrate the temperature across the complete temperature range of 50°C to 250°C, and is traceable to NIST standards. The kit features totally unattended operation and provides a printed report of the degree of error if the instrument is found to be out of calibration.

SAMPLE CALIBRATION REPORT, by ARIZONA INSTRUMENT LLC
COMPUTRAC MAX 4000XL TEMPERATURE CALIBRATION REPORT

UNIT SN#: 4153-4

INTERFACE SN#: 60008
 PROBE SN#: P1012
 CERT DATE: 03/19/2009
 PREV CAL DATE: 09/23/2009
 CUR CAL DATE: 09/24/2009
 VERIFY DATE: 09/24/2009

Users input serial numbers into MAX® series instruments.

CALIBRATION DATA

MAX 4K TEMP	<u>DISK TEMP</u>	<u>ERROR</u>	<u>CORRELATION</u>
050	049	-01	+01
075	077	+02	+01
100	107	+07	+01
125	136	+11	+01
150	165	+15	+01
175	193	+18	+01
200	219	+19	+01
225	246	+21	+01
250	272	+22	+01
275	297	+22	+01

Example of MAX® 4000XL temperature calibration results prior to calibration: The MAX® 4K TEMP column indicates the temperature set point. The DISK TEMP column reflects the actual temperature in the analyzer. The ERROR column shows the number of degrees it is off from the set point. The CORRELATION column shows the difference between the current calibration and the previous one.

TempCo [1] = -01.44
 TempCo [2] = +02.39
 TempCo [3] = +07.04
 TempCo [4] = +11.27
 TempCo [5] = +14.74
 TempCo [6] = +17.63
 TempCo [7] = +19.49
 TempCo [8] = +20.81
 TempCo [9] = +21.71
 TempCo [10] = +21.84

Temperature coefficients used by the module to calibrate the instrument.

VERIFICATION DATA

<u>MAX 4K TEMP</u>	<u>PROBE TEMP</u>	<u>ERROR</u>	<u>STATUS</u>
080	080	+00	PASSED
120	120	+00	PASSED
160	159	-01	PASSED
200	199	-01	PASSED

In this example, verification data indicates that the actual temperature is within factory specifications.