

## SPECIFICATIONS

### Temperature

**Range:** 32.0 to 140.0°F and 0.0 to 60.0°C

**Resolution:** 0.1°C

### Humidity

**Range:** 5.0 to 95.0%

**Resolution:** 0.1%

### Display Unit

**Battery:** 1 x AAA (1.5 VDC)

**Sampling Rate:** 3 seconds/sample

## DISPLAY MODES

**Temperature Display Mode:** Indicated by the display of the current temperature and the MAX (maximum) and MIN (minimum) temperature readings.

**Humidity Display Mode:** Indicated by the display of the current humidity and the MAX/MIN humidity readings. Press the MODE button to alternate display modes.

## DISPLAYING °F OR °C

Press the °C/°F button while in the temperature display mode to toggle the temperature unit of measure between Celsius and Fahrenheit.

## RESETTING MIN/MAX MEMORIES

### TEMPERATURE

While in the temperature display mode, press the CLR MEM/+ button to clear the MIN and MAX temperature memories. The display will show "--" briefly, and then reset MIN/MAX values to current temperature reading.

### HUMIDITY

While in the humidity display mode, press the CLR MEM/+ button to clear the MIN and MAX humidity memories. The display will show "--" briefly, and then reset the MIN and MAX values to the current humidity reading.

## ALARMS

There are four adjustable alarm set points:

High Temperature Alarm—

Alarm will sound when the temperature measured is greater than this set point.

Low Temperature Alarm—

Alarm will sound when the temperature measured is less than this set point.

High Humidity Alarm—

Alarm will sound when the humidity measured is greater than this set point.

**LOW HUMIDITY ALARM—**

Alarm will sound when the humidity measured is less than this set point.

All four alarm set points are independent of each other. The user may enable/disable any combination of the alarm set points.

## SETTING TEMPERATURE ALARMS

1. While in the Temperature Display Mode, press and hold the SET button until "HI" appears on the display.
2. If "--" appears on the display to the left side of "HI", press the MODE or CLR MEM/+ button to enable the high temperature alarm. The dashes will be replaced with an initial alarm value.
3. To change the high temperature alarm set point, press the CLR MEM/+ button to advance the display in 1°C increments until the desired setting is reached. Press and hold the CLR MEM/+ button to rapidly advance the setting.
4. Press the SET button to save the set point. "LO" will then appear on the display.
5. If "--" appears on the display to the left side of "LO", press the MODE or CLR MEM/+ button to enable the low temperature alarm. The dashes will be replaced with an initial alarm value.
6. To change the low temperature alarm set point, press the CLR MEM/+ button to advance the display in 1°C increments until the desired setting is reached. Press and hold the CLR MEM/+ button to rapidly advance the setting.

7. Press the SET button to save the set point. The display will return to the temperature min/max display mode.

## SETTING HUMIDITY ALARMS

1. While in the Humidity Display Mode, press and hold the SET button until "HI" appears on the display.
2. If "--" appears on the display to the left side of "HI", press the MODE or CLR MEM/+ button to enable the high humidity alarm. The dashes will be replaced with an initial alarm value.
3. To change the high humidity alarm set point, press the CLR MEM/+ button to advance the display in 1% increments until the desired setting is reached. Press and hold the CLR MEM/+ button to rapidly advance the setting.
4. Press the SET button to save the set point. "LO" will then appear on the display.
5. If "--" appears on the display to the left side of "LO", press the MODE or CLR MEM/+ button to enable the low humidity alarm. The dashes will be replaced with an initial alarm value.
6. To change the low humidity alarm set point, press the CLR MEM/+ button to advance the display in 1% increments until the desired setting is reached. Press and hold the CLR MEM/+ button to rapidly advance the setting.

1. Press the SET button to save the set point. The display will return to the humidity min/max display mode.

#### **ALARM SOUNDING**

The unit will sound the alarm in the event an alarm limit is breached, regardless of the display mode. In addition, the alarm set point breached will flash on the display. The unit will continue to alarm until acknowledged on the device, even if the alarming parameter returns to within range. To acknowledge an active alarm, press the CLR MEM/+ button. Note pressing the button will not clear the min/max if the unit is in an alarm state.

#### **DISABLING AN ALARM SET POINT**

To disable an alarm set point, follow the instructions for setting an alarm set point accordingly. When the desired set point is on the display indicated by either "HI" or "LO" for the measurement display mode selected, press the MODE button. The alarm set point will be replaced with "--" to indicate the alarm set point is disabled.

#### **BENCH STAND**

The unit is supplied with a built-in bench stand on the rear case side. To open the bench stand, place your finger into the opening at the top of the stand and flip out. To close the stand, snap it back into the closed position.

#### **WALL MOUNT**

Set one screw into the wall at the desired location. Do not set the screw flush with the wall, the head of the screw will need to slip into the receptacle on the back

of the unit. Once the screw is in place, hang the unit by sliding the receptacle on the back of the unit over the screw head.

#### **OPERATION DIFFICULTY**

If the unit does not function properly for any reason, replace the battery with a new high-quality battery (see "Battery Replacement" section). Low battery power can occasionally cause any number of apparent operational difficulties. Replacing the battery with a new fresh battery will solve most difficulties.

#### **BATTERY REPLACEMENT**

Erratic readings, faint display, or no display are all indications that the battery must be replaced. Slide the battery cover down in the direction of the arrow printed on the cover. Remove the exhausted battery and replace with a AAA alkaline battery. Make certain to insert the new battery with the proper polarity as indicated in the illustration in the battery compartment. Replace the battery cover.

#### **WARRANTY, SERVICE, OR RECALIBRATION**

For warranty, service, or recalibration, contact:

#### **TRACEABLE® PRODUCTS**

12554 Old Galveston Rd. Suite B230

Webster, Texas 77598 USA

Ph. 281 482-1714 • Fax 281 482-9448

E-mail [support@traceable.com](mailto:support@traceable.com) • [www.traceable.com](http://www.traceable.com)

Traceable® Products are ISO 9001:2018 Quality-Certified by DNV and ISO/IEC 17025:2017 accredited as a Calibration Laboratory by A2LA.

Cat. No. 4154, 4155, 8550

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# **TRACEABLE® ALARMING HYGROMETER/ THERMOMETER INSTRUCTIONS**



# Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001



Cert. No.: 4040-1209600C

## Traceable® Certificate of Calibration for Therm./Clock/Humidity Monitor

Manufactured for and distributed by : Traceable® Products 12554 Galveston Rd B230, Webster, TX 77598

### Instrument Identification:

Model: 4040,90080-06

S/N: 210248494

Manufacturer: Control Company

### Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Non-Contact Frequency Counter	26.662025	21 Apr 2021	1000453894
Digital Thermometer	221197993	14 Oct 2021	4000-11621504
Chilled Mirror Hygrometer	44654/2H3737	25 Nov 2021	17811

### Certificate Information:

Technician: 126

Procedure: CAL-17

Cal Date: 27 Mar 2021

Cal Due Date: 27 Mar 2023

Test Conditions: 57.75%RH 22.6°C 1012mBar

### Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
%RH	N.A.	N.A.		41.63	41	Y	37	47	0.74	>4:1
°C	N.A.	N.A.		23.25	22.7	Y	22.2	24.2	0.076	>4:1
sec/24hr	N.A.	N.A.		0.000	0.133	Y	-8.64	8.64	0.041	>4:1

This certificate indicates Traceability to standards provided by (NIST) National Institute of Standards and Technology and/or a National Standards Laboratory.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement": (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ± U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2, Min=As Left Nominal(Rounded) - Tolerance; Max= As Left Nominal(Rounded) + Tolerance;

*Nicol Rodriguez*

Nicol Rodriguez, Quality Manager

*Marisa Elms*

Marisa Elms, Technical Manager

Note :

### Maintaining Accuracy:

In our opinion once calibrated your Therm./Clock/Humidity Monitor should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Therm./Clock/Humidity Monitor change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

### Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

Issue Date : 27 Mar 2021

CONTROL COMPANY 12554 Galveston RD Suite B230 Webster TX USA 77598  
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Control Company is an ISO/IEC 17025:2017 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01.  
Control Company is ISO 9001:2015 Quality Certified by DNV GL, Certificate No. CERT-01805-2006-AQ-HOU-ANAB.  
International Laboratory Accreditation Cooperation - Multilateral Recognition Arrangement (ILAC-MRA).