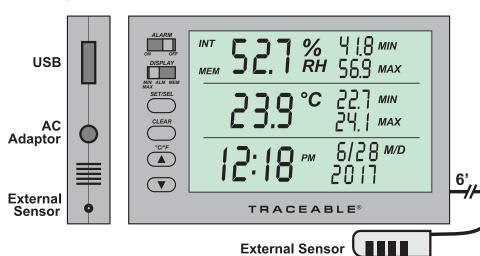
LCD DISPLAY:

LCD View Angle: 12 o'clock

FIGURE 1

SIDE VIEW



TEMPERATURE:

Range:

Ambient: 0 to 65°C,

External Probe: -20 to 70°C

Resolution: 0.1°C Accuracy: ±0.4°C

Recommended Temperature Operating Range: 0 to 65°C.

RELATIVE HUMIDITY:

Range: 0 to 95% RH, non-condensing

Resolution: 0.1% RH

Accuracy: ±3% RH between 5 to 75%, otherwise ±5% RH Recommended Humidity Operating Range: 20 to 80% RH (non-condensing) over –10°C to 60°C.

BATTERY: 3 AAA Alkaline batteries (4.5V)

DATA UPDATE FREQUENCY:

Temperature and humidity: updated every 10 seconds; **Note:** if a reading is out of operating range, the corresponding location on LCD will display '----', and such out of range reading will not trigger alarm.

Data Logging Frequency: 2 min by default, useradjustable between 1 min and 12 hours with 1 min step.

Data Storage Capacity: Excursion-Trac: 525,504 data records, 2 years for two-minute logging frequency Memory-Loc: 688,086 data records, 2 years and 7 months for two-minute logging frequency.

VIEW CURRENT READING

- If readings are read from ambient sensor, INT LCD symbol will appear on display; If readings are read from probe sensor, EXT LCD symbol will appear on display.
- 2. Press SET/SEL button to toggle between ambient and

OPERATION INSTRUCTION:

1. Setup device:

probe.

- Set-up Mode: Press and hold SET button for 3 seconds, release button once YEAR digits start flashing.
- b. Press ▲ or ▼ button to adjust to current year.
- c. Press and hold ▲ or ▼ button for 2 seconds, the value will increase or decrease faster.
- d. Once YEAR is set, press and release SET button (don't hold SET button) to move forward to next setup item.
- e. Setup items move forward in the following order:
 Year -> Month -> Day -> Hour -> Minute -> AM/
 PM -> Data Logging Interval -> Internal Humidity
 Low Alarm -> Internal Humidity High Alarm ->
 Internal Temperature Low Alarm -> Internal
 Temperature High Alarm -> External Humidity Low
 Alarm -> External Humidity High Alarm -> External
 Temperature Low Alarm -> External Temperature
 High Alarm -> Exit Setup Mode.\
- f. While in Setup mode, press and hold SET button for 3 seconds to exit setup mode. Or while digits are flashing, and no SET/▲/▼ button pressed for 15s, the device will exit Setup mode.
- g. While setting temperature and humidity alarms, default step sizes are:

Temperature: 0.1

Humidity: 1

Data logging interval: 1 min

If press and hold ▲ or ▼ button for 2 seconds, the step sizes are changed to following for fast adjustment:

Temperature: 1

Humidity: 10

Data logging interval: 10 min

Once ▲/▼ button is released from long press, the step sizes are back to default.

h. All setup items, time, alarm settings are stored in the device's memory, and will not be lost if the device is powered off. While running, the device stores time to memory once a minute.

ALARM

- Once an alarm is triggered the corresponding parameter will flash on LCD and alarm will beep.
- Alarm will continue to beep for 60 seconds and then will beep every 15 seconds.
- Press CLEAR button to clear alarm, if both LCD flashing and beeping on current display, INT or EXT. If an alarm is triggered on both INT and EXT, press CLEAR to clear alarm on current display, then press SET/SEL button to select other display, and press CLEAR button to clear the alarm.
- If temperature or humidity falls back to normal range, and then back to out of alarm range, alarm will be triggered again.

SELECTING UNIT OF MEASURE:

- 1 Slide DISPLAY switch to MIN/MAX or ALM
- 2. Press ▲ (C/F) to select Celsius or Fahrenheit.

VIEW CURRENT MIN/MAX

- Minimum values stored in memory are the minimum readings measured since the minimum memory was cleared. The maximum values stored in memory are the maximum readings measured since the maximum memory was cleared.
- Min/Max values are not programmable; neither are they stored in permanent memory. Min/Max values are reset upon power cycle.
- 3. Slide DISPLAY switch to MIN/MAX position.
- 4. Current Min/Max values are displayed.
- To clear current Min/Max values, while DISPLAY switch is in MIN/MAX position, press CLEAR button once.

VIEW ALARM LIMITS

- 1. Slide DISPLAY switch to ALM position.
- 2. Alarm setting are displayed on LCD.

ENABLE/DISABLE ALARMS

- Slide ALM switch to ON or OFF to enable or disable the alarms
- 2. Alarms are enabled or disabled for all channels, can't be enabled or disabled individually.

DATA LOGGING OPERATION

- Device will continuously log measurements from all channels in memory in user-specified intervals. Each data point contains humidity readings and temperature readings.
- Note: All data stored in %RH and Celsius. Date/time format is MM/DD/YYYY
- Note: DO Not LEAVE USB Mass Storage Flash Drive inserted in the unit. Insert, DOWNLOAD, and then remove. Device cannot continuously write to a USB.
- Device will also store the most recent 30 alarm events.
 Each alarm event data point contains channel number

which alarmed, the alarm set point that was triggered, the date and time the channel reading went out of range, and the date and time the channel reading returned to within range.

VIEW THE MEMORY CAPACITY/USAGE

- 1. Slide DISPLAY switch to MEM position
- First line displays current percentage of memory full, the second line displays the number of days remaining before memory is full at the current data logging interval, and the third line displays current date/time.

Note: For Excursion-Trac: the MEM symbol will become active on the display when the memory is full. Once memory is full, the oldest data points will be overwritten with new data points.

For Memory-Loc: MEM symbol will become active on display when the memory is 95% full. Once memory is full, device will stop logging new data points.

CLEAR THE MEMORY

Slide DISPLAY switch to MEM position.
 For Excursion-Trac: Press and hold CLEAR button
 for 2 seconds until LCD displays "donEE", then release
 the button.

For Memory-Loc: Memory cannot be cleared.

VIEW UNIQUE DEVICE ID NUMBER

- 1. Slide DISPLAY switch to MEM position.
- Press ▼ button once, second line will display first eight digits of ID number, and '—' is displayed at end.
- 3. Press ▼ button again, second line will display last eight digits of ID number.
- 4. Press ▼ button a third time to return to default display.

DOWNLOAD DATA

- USB download will only occur if AC Adaptor LCD symbol is shown on display. Plug supplied AC adaptor into device to provide sufficient power for USB operation.
- Data can be downloaded directly to a USB Mass Storage Flash Drive. To begin download, insert USB flash drive into USB port located on right side of device.
- Download will begin upon insert. USB LCD symbol will appear on display to indicate download has begun. Wait up to 60 seconds for USB LCD symbol to appear after insertion of flash drive. Flash drives with larger amounts of data stored on drive prior to downloading will take longer to begin the download.
- Once download process is complete, USB LCD symbol will disappear from display and a short beep will sound. Do not remove USB drive until process is complete.
- 5. Data transfer rate is approximately 200 data points per second.

Note: DO NOT leave USB Mass Storage Flash Drive inserted into unit. Insert, DOWNLOAD, and then remove. Device cannot continuously write to a USB.

REVIEW STORED DATA

 Downloaded data is stored in a comma-delimited CSV file on flash drive. Filename naming convention is "D1D2D3D4D5D6D7R1.CSV" where D1 through D7

- are the last seven digits of the thermometer's unique ID number and R1 is the revision of file starting with letter "A".
- If more than one file is written from same device to USB flash drive, revision letter will be incremented to preserve previously downloaded files.
- Data file can be opened in any software package supporting comma-delimited files including spreadsheet software (Excel) and text editors.
- File will contain device unique ID number, the most recent 30 alarm events, and all stored temperature readings with date and time stamps.

Note: All data stored in %RH, Celsius. Date/time format is MM/DD/YYYY

DISPLAY MESSAGE

 If no buttons are pressed and --.-- appears on display, this indicates reading being measured is outside of the operating range of device, or sensor is damaged

LOW BATTERY DISPLAY

If battery falls below 3.4V, Low Battery symbol will display on LCD. Device checks battery voltage every two hours.

WARRANTY, SERVICE, OR RECALIBRATION

For warranty, service, or recalibration, contact:

TRACEABLE® PRODUCTS

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

STATIC SUPPRESSOR INSTALLATION

Static generated, radio frequency can affect any cable through the air or by physical contact. To protect against radio frequency, install a suppressor onto your thermometers cable to absorb radio frequency as follows:



Lay the cable along the center of the suppressor with the connector to your left.



Loop the right end of the cable under the suppressor and back up again laying the cable along the center of the suppressor.



Carefully, snap the two halves together with the looped cable routed through the center.



This completes the installation of the suppressor.

TRACEABLE®
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