

DATA GRABBER®

INSTRUCTION MANUAL



**DATA
GRABBER®**
with Bluetooth®

**DATA
GRABBER®**



RAPIDRH **L6**
Fast, Accurate Moisture Test for Concrete Floors

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Wagner Meters provides two distinct DataGrabbers® which will significantly enhance your documentation of Rapid RH® L6 Smart Sensor readings. DataGrabbers automate the reading collection process by interfacing to an L6 sensor, allowing the sensor itself to store relative humidity (RH) and temperature readings on a periodic basis while you are away from the job site. The DataGrabber with Bluetooth® features a built-in wireless connection to your smart device. Alternatively, the non-wireless version of the DataGrabber uses the Bluetooth®-enabled Total Reader® to communicate to your smart device.

The DataGrabber with Bluetooth easily inserts into an L6 sensor and directly connects with the free DataMaster™ L6 app for automated collection of time and date-stamped concrete RH and temperature readings. The DataMaster L6 app allows you to configure the time interval that the DataGrabber with Bluetooth will periodically engage the L6 Smart Sensor to collect and store readings, keep a running clock of acclimation time, download the time and date-stamped readings and much more.

The non-wireless DataGrabber performs the same automated and data gathering tasks as the DataGrabber with Bluetooth but, as mentioned above, requires the Total Reader as the Bluetooth conduit to the DataMaster L6 app.

By using a DataGrabber to enable an L6 sensor to store up to 512 RH and temperature readings on a time and date-stamped basis, you can achieve a better understanding of the drying process as well as the dynamics that may be affecting the concrete drying time. Utilizing RH and temperature readings acquired from an L6 sensor with a DataGrabber, data analysis and trending is also possible in the DataMaster L6 app.

DATA GRABBER®

Data Logger with Bluetooth®
for Rapid RH® L6



The DataGrabber with Bluetooth is a self-contained unit that automates the concrete RH and temperature reading collection and storage process inside Rapid RH L6 Smart Sensors and transmits the data to the free DataMaster L6 app. Snap the DataGrabber with Bluetooth into an L6 Smart Sensor, then use the DataMaster L6 app to set up time intervals for all DataGrabbers with Bluetooth to engage their L6 Smart Sensors to record and store time and date-stamped concrete RH and temperature readings for days, weeks, or months at a time.

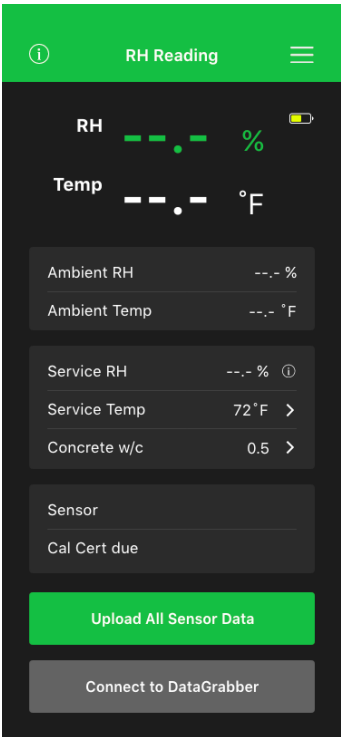
The DataGrabber with Bluetooth can also be accessed through the DataMaster L6 app to set the device name, view acclimation time, and download sensor data.



DataGrabber with Bluetooth fully and correctly
inserted into L6 sensor.

CONNECT

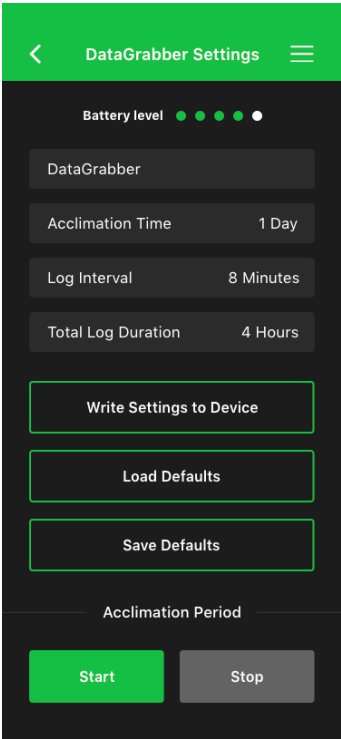
First, make sure you have downloaded the free DataMaster L6 app to your smart device. Open the app, and the app will open up in the audio tutorial mode. You may wish to go through this tutorial, but if not, just press the Skip button in the extreme lower right-hand corner of the screen, and the following DataMaster L6 screen will appear:



Next, click on the Menu icon located in the upper right-hand corner of the screen. A menu will appear, choose Manage Devices and you will be on the Devices screen. If you are in proximity of any DataGrabber with Bluetooth units installed in L6 sensors, the unit with the greatest signal strength will appear as the first unit at the top, followed by any other DataGrabber units within Bluetooth range. Now you can begin to configure your DataGrabber units (See Configuration section).

CONFIGURATION

Each DataGrabber with Bluetooth can be configured for Device Name, Acclimation Time and Log Interval. From the Devices screen, select the specific DataGrabber with Bluetooth you wish to configure. Next, click the Settings button. The DataGrabber is available for configuration if the Settings button is green. However, if the Settings button is grey, you may need to troubleshoot your device (see Troubleshooting section). In approximately 20 seconds or less, the Device Settings screen for that DataGrabber will appear; see below.



Device Name: This will be the unique identifier of your device. The device name can be up to 12 characters long.

NOTE: There will be a default name present in the Device Name field, but you will likely want to rename it.

Acclimation Time: The amount of time elapsed (in days) before the DataGrabber will automatically capture (grab) a measurement and store in the L6 Smart Sensor's memory as the acclimated time measurement of both RH and temperature. For instance, setting an acclimation time of one day and then starting, the DataGrabber will wait 24 hours and "grab" a measurement for storage in the L6 Smart Sensor's memory. In most cases, it is highly recommended to use one day as the acclimation time, given that 24 hours is the minimum equilibration time specified by the ASTM F2170 standard for getting official, documentable RH readings.

Log Interval: In addition to the reading captured (grabbed) when the Acclimation Time has elapsed (see above), an L6 sensor, through the DataGrabber with Bluetooth, will begin to capture readings at a certain interval, defined as the Log (datalogging) Interval. This datalogging of RH and temperature readings begins as soon as the DataGrabber with Bluetooth is inserted into the sensor, and a new set of readings is logged everytime the Log Interval is met. The default and minimum Log Interval is 1 hour.

Log Duration: A calculation of the total number of days that periodic time and date-stamped readings will be taken based on the set log interval and the L6 Smart Sensor's maximum memory storage of 512 data points. Once this limit is reached, the first stored reading will be overwritten.

Write Settings to Device: Whenever you change the configuration of the DataGrabber, you must click the Write Settings to Device button in order to save the settings.

Default Settings: If you wish to use the acclimation time and log interval settings as the default settings for one or more additional DataGrabbers, click the Save Defaults button. This saves the settings displayed as your default settings. Then select another DataGrabber and go to the Settings screen. Click the Load Defaults button. The default settings will

now be displayed for this device. Be sure to also click the Write Settings to Device button to save the default settings to this DataGrabber.

Start and Stop: After you have saved the desired settings and are ready to begin data logging, click the Start button to signal to the DataGrabber to begin the acclimation time.

NOTE: The clock in the DataGrabber will automatically synchronize to the clock on your mobile device.

TROUBLESHOOTING

If the DataGrabber with Bluetooth does not show up on the DataMaster L6 Devices screen.

- Check the connection between the DataGrabber and the L6 Smart Sensor.
- Ensure that the battery is seated properly or replace the battery as necessary.

REMOVAL

To remove the DataGrabber with Bluetooth, use the included removal tool as shown to carefully extract without damaging the unit.



BATTERY

Removing and Replacing the Battery

1. Carefully remove the screws near the top with a small Phillips head screwdriver.
2. Tip the DataGrabber with Bluetooth upside down and tap the bottom of the unit carefully to dislodge the battery into your palm.
3. Place the battery within the well positive side up. (Note: the battery text should be visible.)
4. Insert the battery until it stops. Be careful to avoid using excessive force.



Product Specification

- **(Replaceable) Battery Life:** 1.88 years (CR 1/3N)
- **Storage:** 512 data points
- **Dimensions:** 1" (25.4 mm) Height .71" (18.12 mm) Diameter
- **Net Weight:** .19oz (5.7g)

DATA GRABBER®

Data Logger for Rapid RH® L6



Insert the DataGrabber into the L6 Smart Sensor as shown and use the Total Reader to connect to the DataMaster L6 app on your mobile device. The DataGrabber will appear on the DataMaster L6 Devices screen, as named, along with any DataGrabbers with Bluetooth capability.

To get to the Devices screen, click on the Menu in the upper righthand corner and select Manage Devices. Once the DataGrabber is selected, you can configure its settings as needed (see Configuration section).

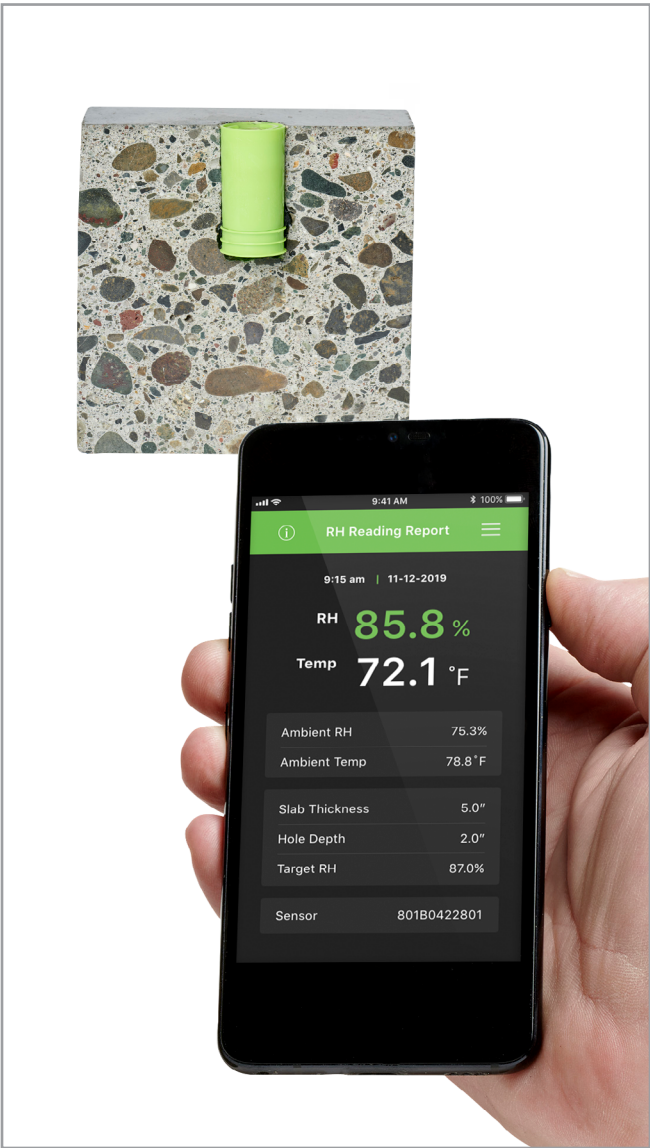
You can also retrieve the time and date-stamped historical data from the L6 Smart Sensor for viewing, saving, and attaching to reports. Click “Save to Map” to upload the data to your mobile device and display the entire list of time and date-stamped RH and temperature data for the L6 Smart Sensor.

At the screen displaying the time and date-stamped data, you are given the option to “Store Readings.” This stores the readings to the specific map location, assuming the L6 Smart Sensor has been included on the job map. If no job map has been created or the sensor has not yet been added to the map, you can create the map and add the sensor to the job map if desired.



DATA COLLECTION

Insert the DataGrabber into the L6 Smart Sensor as shown and use the Total Reader and DataMaster L6 app to configure the time interval for periodic readings.



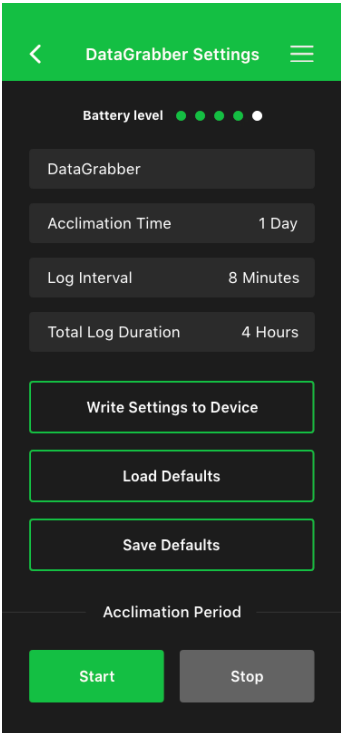
CONFIGURATION

The DataGrabber can be configured to take time and date-stamped concrete RH and temperature readings and store them for later retrieval using the Total Reader and DataMaster L6 app.



To configure the DataGrabber, first place the Total Reader to make contact with the DataGrabber inserted in a L6 Smart Sensor. Once contact is made, the DataGrabber then appears on the DataMaster L6 app’s Devices screen. The screen displays devices in order according to greatest signal power. Therefore, the DataGrabber should be at the top of the list of devices, since you will most likely be holding the Total Reader near your mobile device.

Each DataGrabber can be configured for device name, acclimation time, and log interval. From the Devices screen, select the DataGrabber you wish to configure. Next, click the Settings button. The DataGrabber is available for configuration if the Settings button is green. If the Settings button is grey, then you will need to troubleshoot the device’s connection and/or check the battery.



Device Name: This will be the unique identifier of your device. The device name can be up to 12 characters long.

Acclimation Time: The Acclimation period is the time (number of days) from the start that the DataGrabber will automatically capture (grab) a measurement and store in the L6 Smart Sensor’s memory as the acclimated time measurement of both RH and temperature. For instance, setting an acclimation time of one day and then starting, the

DataGrabber will wait 24 hours and “grab” a measurement for storage in the L6 Smart Sensor’s memory. In most cases, it is highly recommended to use one day as the acclimation time, given that 24 hours is the wait time specified by the ASTM F2170 standard for getting official, documentable RH readings. After this first measurement, other periodic logging continues to occur regardless of the acclimation time period.

Log Interval: Set the desired time (number of hours) between periodic readings. These are the readings that will be “grabbed” after the initial acclimation time has occurred.

Write Settings to Device: Whenever you change the configuration of the DataGrabber, you must click the Write Settings to Device button in order to save the settings.

Default Settings: If you wish to use the acclimation time and log interval settings as the default settings for one or more additional DataGrabbers, click the Save Defaults button. This saves the settings displayed as your default settings. Then select another DataGrabber and go to the Settings screen. Click the Load Defaults button. The default settings will now be displayed for this device. Be sure to also click the Write Settings to Device button to save the default settings to this DataGrabber.

Start and Stop: After you have saved the desired settings and are ready to begin data logging, click the Start button to signal to the DataGrabber to begin the acclimation time. Time and date-stamped data logging begins as soon as the acclimation time is completed.

Note: The clock in the DataGrabber will automatically synchronize to the clock on your mobile device.

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REMOVAL

To remove the DataGrabber, use the included removal tool as shown to carefully extract DataGrabber without damaging the unit.



BATTERY

Removing and Replacing the Battery

1. Carefully pry open the battery compartment cover with a small flat head screwdriver or similar device.
2. Use a paper clip or similar implement to push through one of the holes on the back to coax the battery out.
3. Place the battery within the well positive side up (the text should be readable). Insert the battery until it stops. Be careful to avoid using excessive force.
4. Replace the battery compartment cover by guiding the arms of the cover inside the slot and pushing until the cover snaps into place.



Product Specification

- **Battery Life:** 6.71 years (Replaceable CR1025)
- **Storage:** 512 data points
- **Dimensions:** .79" (20.2mm) Height .71" (18.12mm) Diameter
- **Net Weight:** .12 oz (3.3g)



**For more information
on relative humidity testing
and to order online go to
www.RapidRH.com**

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The RAPID RH® L6 DataGrabber is registered
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