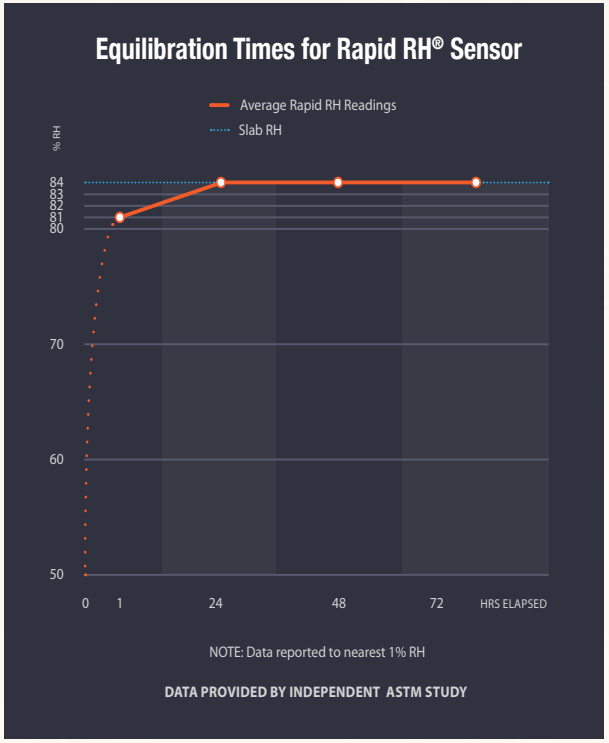
24 Hours: Fast Just Got Faster!

The Rapid RH product line is the fastest, most cost effective and simplest way to meet ASTM F2170, the standard for in situ relative humidity (RH) testing of concrete floor slabs.

Now, thanks to a recent update in the standard, the mandatory wait before obtaining official RH test results is only 24 hours, rather than 72 hours as required by other moisture tests.

This significant reduction in wait time allows you to take action on RH test results a full two days earlier than the ASTM F2170 standard previously allowed. Since time is money, this additional 48-hour time savings is something you can take to the bank. No other industry-accepted test method for concrete moisture offers such fast results, and certainly none are more reliable or accurate than the RH test.



Online Resources

We're proud of our customer education and support. Nobody supports you better than the Rapid RH® team.

Scan to access these resources online or use the URL below: wagnermeters.com/RRHResources

✓Articles/Videos

Find the most current and relevant articles written by industry experts on relative humidity. Our video library includes a complete Rapid RH® installation demonstration, plus information and training videos by Howard Kanare, world leading expert in concrete moisture.

✓Technical Information

Access additional technical information about the latest in moisture testing for concrete.

✓FAQs

Got questions? Check out our FAQ reference online or call us if you have additional questions.

✓Product Information

Quick access to the Rapid RH® installation manual and jobsite documentation online.

✓Social Media

Rub elbows with installers and industry leaders on our **Facebook, Twitter, LinkedIn,** and **Forum** pages. Learn what others are saying and join the discussions.

✓Industry Apps

Download the DataMaster™ app for all your mobile devices, and get lots of convenient Read, Record, and Report features that make concrete moisture testing easier than ever. Download the RHSpec app and get over 120 major manufacturers' relative humidity specifications at your fingertips.

For more resources
visit www.RapidRH.com
or call worldwide toll-free: 1.800.207.2538

10K0617PP

WAGNER METERS
Unleash Your Expertise

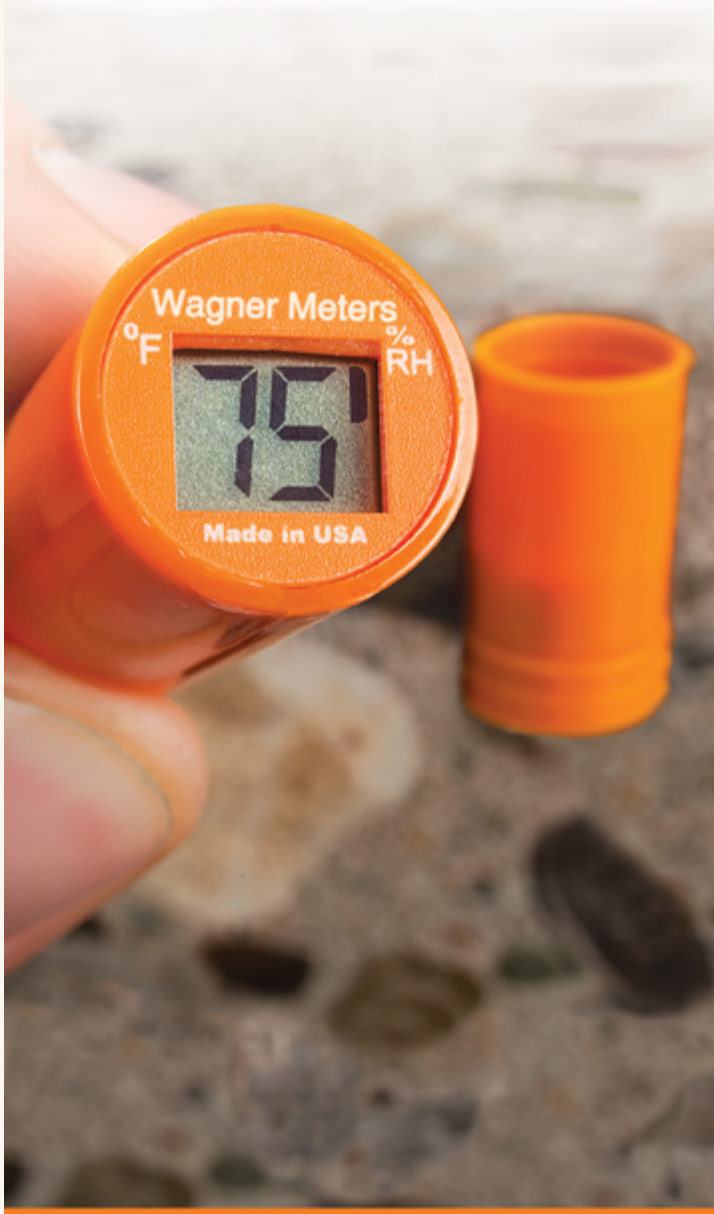
MADE IN U. S. A.

502-R0004-002 rev. F

RapidRH® 4.0 EX

Fast, Accurate Moisture Test for Concrete Floors

U.S. Patent 7231815, 8047056 & 9,032,791 Additional Patents Pending



WAGNER METERS
Unleash Your Expertise

CE

FEATURING

Touch-n-Sense™

TECHNOLOGY

Rapid RH® 4.0 EX features our patented **Touch-n-Sense™** technology. Simply insert the *Easy Reader* into any test hole with a Rapid RH® 4.0 EX Smart Sensor installed, and the two interact on contact. Once the reading has been taken, the reading on the *Easy Reader* will continue to display for up to 5 minutes after being removed from the test hole, simplifying the testing and recording process at the jobsite.

It's fast, it's accurate, and it's never been easier.

RAPID RH® 4.0 EX Complete Starter Kit

All-in-one convenient carrying case includes everything you need to conduct several Rapid RH® 4.0 EX tests.

INCLUDES:
- 5 Smart Sensors
- Rapid RH® 4.0 *Easy Reader*
- ¾" SDS Masonry Drill Bit
- Wire Cleaning Brush
- Vacuum Attachment
- Insertion Tool
- Carrying Case

CLEARLY Superior

Now more than EVER!

✓10 Times Faster

The Rapid RH® patented design equilibrates faster than any other concrete relative humidity sensing device. In most cases, a Rapid RH® Smart Sensor will be within 3-5% of the final reading (at 24 hrs according to ASTM F2170) one hour after the installation.

✓Lowest Cost Per Test

The time saving alone gained with the Rapid RH® leads to lower costs for you. But the Rapid RH® also has a much lower initial investment than other relative humidity measurement options in the marketplace. So the Rapid RH® saves you money IMMEDIATELY.

✓Simplest to Use

The Rapid RH® method is simple and quick. To obtain readings, just insert the compact Rapid RH® *Easy Reader* into an installed Smart Sensor and get a reading that anyone on the jobsite can take. And the Rapid RH® *Easy Reader* now features Touch-n-Sense™ technology. On contact with any 4.0 EX Smart Sensor, the *Easy Reader* turns on, takes a reading, holds the reading for up to 5 minutes after it is removed from the Smart Sensor, then powers down – all automatically!

✓Easiest to Comply with ASTM F2170

Once placed in a test hole, the Rapid RH® Smart Sensor is not moved in and out, unnecessarily handled, and is always equilibrated. Each test location has a newly calibrated, NIST*-traceable Smart Sensor. This means compliance with ASTM F2170 requirements of traceability and documentation comes built in with each Rapid RH® test.

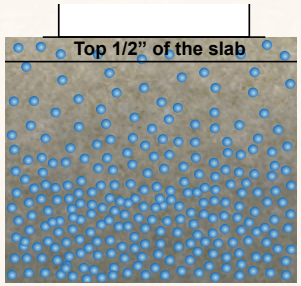
With the Wagner Rapid RH®, you get accuracy and peace-of-mind.

*National Institute of Standards and Technology

Why It Is Crucial to Measure the Moisture Below the Surface of the Slab

Limits of Calcium Chloride Testing

The calcium chloride test measures the moisture vapor emission rate coming from a concrete slab. However, 90% of moisture vapor emissions that a calcium chloride test sees comes only from the top half-inch of the slab. Once a floor covering has been installed and drying has stopped, the slab will equilibrate and evenly distribute the moisture from top to bottom.



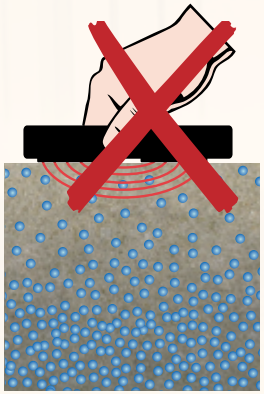
Calcium chloride is therefore only a surface test, highly affected by ambient conditions in the room or building. Even if done correctly, a calcium chloride test tells you nothing about what's going on deeper in the slab.

Dangers of Moisture Meters

As with calcium chloride tests, testing with concrete moisture meters is also surface-biased. At best, they only measure 3/4" into the depth of the concrete.

In addition, concrete moisture meter accuracy is negatively affected by the density variability of the concrete as well as the varying chemical and aggregate composition.

There is no ASTM standard for using moisture meters as a final determination of whether a concrete slab is ready for a floor covering.



Moisture meters should NEVER be used to make the final determination as to whether or not a concrete slab is dry enough for a flooring installation.