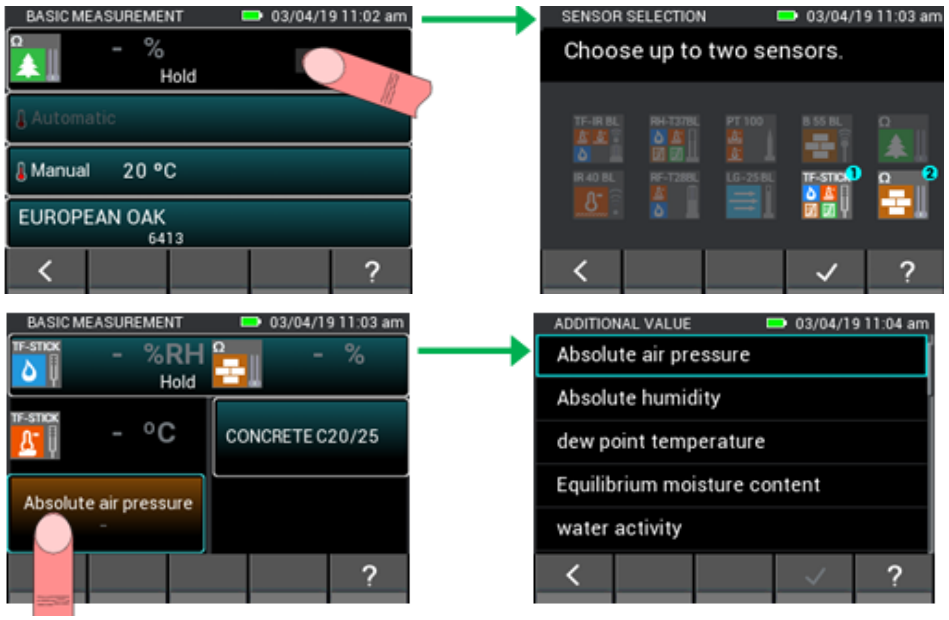
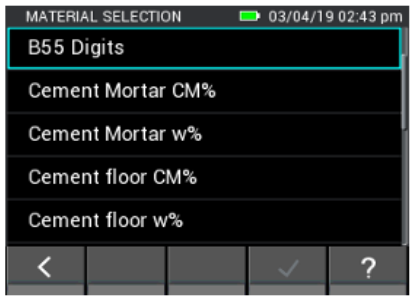
Gann CH17 Quick Reference Guide

Concrete – Non-Invasive [Equivalent]

Step 1: Connect the B55 BL to the CH 17. Once connected turn on the unit.

Step 2: Scroll through the menus using the touch screen until you reach the material menu.





"Scroll through the materials using touch screen until you are on the desired type. (for Concrete - CM or wt.%)

Once the material has been selected press the ""✓"" button to set the material"

Step 3: Take the reading by holding the B55 BL (Ball Electrode) against the material at a 90° and holding the "M" button. On release of the "M" Button, the reading will be saved.

The CM% moisture reading will be where shown.

A reading of <2-3CM% for concrete is considered dry.

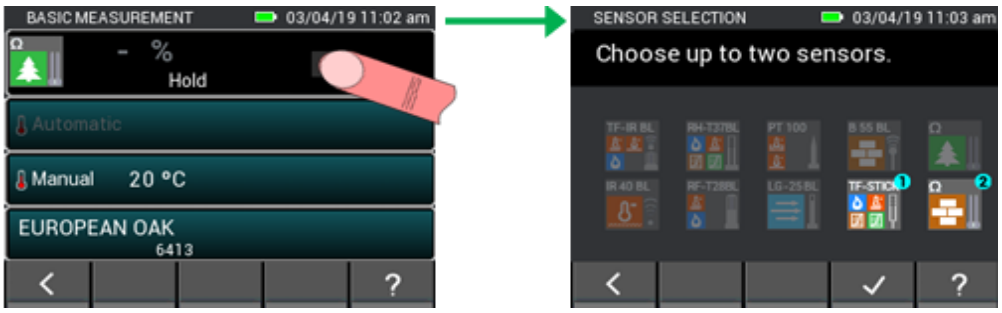
CREATING HEALTHY INDOOR ENVIRONMENTS

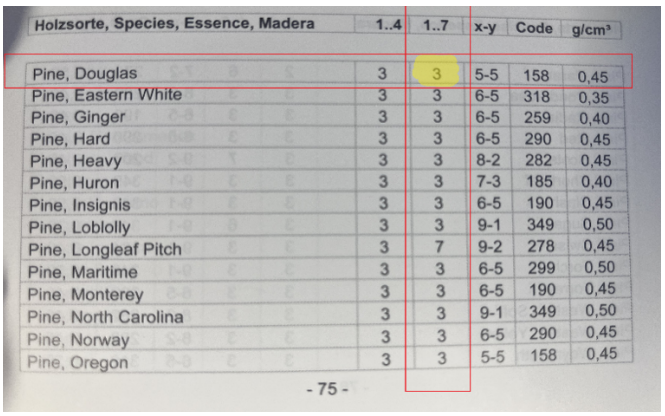
"On The Job" Industry Experience Since 1995

Timber - Non-Invasive [Equivalent] 3 to 4mm Deep

Step 1: Connect the Gann CH17 with the MK8 Measuring Cable and the M20 Drive-in Electrode with the Gann OF15 Surface caps.

Step 2: Turn on the GANN CH17. Access settings by touch screen highlight settings and press the "✓" button. Once the material has been selected press the "✓" button to set the material to confirm. Then highlight Wood type and press the "✓" button. Select types 1-7, based on the expected species of timber on the Timber Species Booklet (See Below)





Holzsorte, Species, Essence, Madera	1..4	1..7	x-y	Code	g/cm³
Pine, Douglas	3	3	5-5	158	0,45
Pine, Eastern White	3	3	6-5	318	0,35
Pine, Ginger	3	3	6-5	259	0,40
Pine, Hard	3	3	6-5	290	0,45
Pine, Heavy	3	3	8-2	282	0,45
Pine, Huron	3	3	7-3	185	0,40
Pine, Insignis	3	3	6-5	190	0,45
Pine, Loblolly	3	3	9-1	349	0,50
Pine, Longleaf Pitch	3	7	9-2	278	0,45
Pine, Maritime	3	3	6-5	299	0,50
Pine, Monterey	3	3	6-5	190	0,45
Pine, North Carolina	3	3	9-1	349	0,50
Pine, Norway	3	3	6-5	290	0,45
Pine, Oregon	3	3	5-5	158	0,45

- 75 -

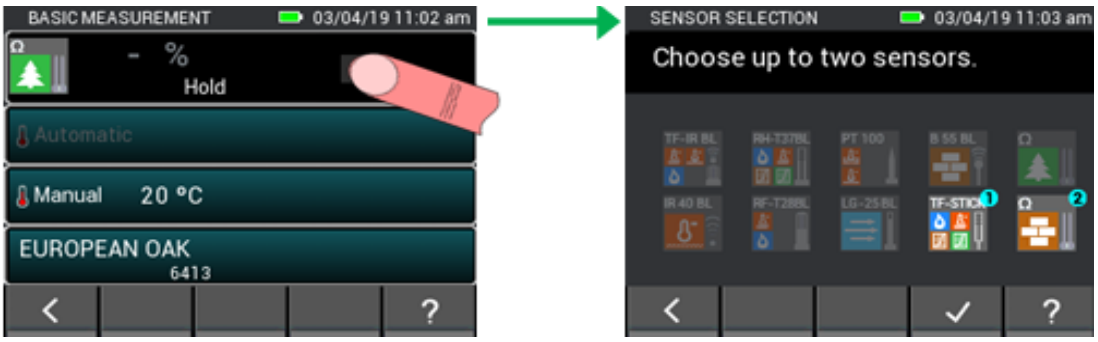
Step 3: Navigate back to the measuring menu by pressing press the "✓" button with the timber ← selected. Press the "M" button with the electrodes on the material. Release "M" to save the reading.

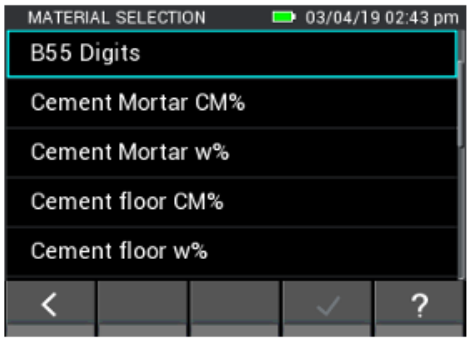
- ☑ You will know you are on the measuring menu by seeing "Hold" at the bottom left of the screen.
- ☑ Timber is considered dry at <10-15CM%. (Which is the reading highlighted in the picture ←)

Brick/Block & Other Substrates – Non-Invasive [Relative]

Step 1: Connect the B55 BL to the CH 17. Once connected turn on the unit.

Step 2: Scroll through the menus using the touch screen until you reach the material menu.





Scroll through the materials using touch screen until you are on the desired type. (for Concrete - CM or wt.%)

Once the material has been selected press the "✓" button to set the material for Relative use RES Digits

Step 3: Take the reading by holding the B55 BL (Ball Electrode) against the material at a 90° and holding the "M" button. On release of the "M" Button, the reading will be saved.

The CM% moisture reading will be where shown.

A reading of <2-3CM% for concrete is considered dry.

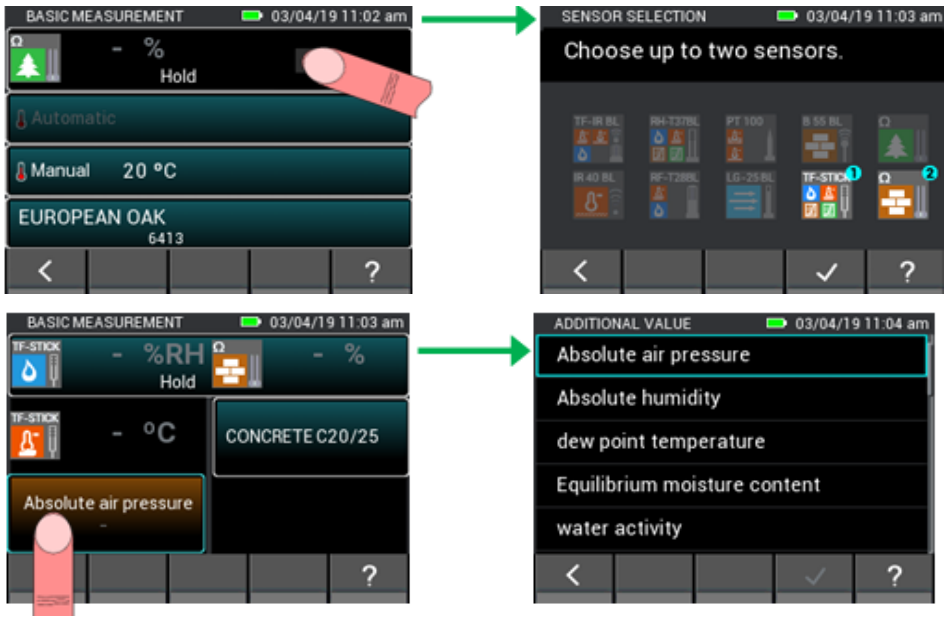
Step 4: First gather a reading from a non-affected area, then the affected. Take the reading by holding the B55 BL (Ball Electrode) against the material at a 90° and holding the "M" button. On release of the "M" Button, the reading will be saved.

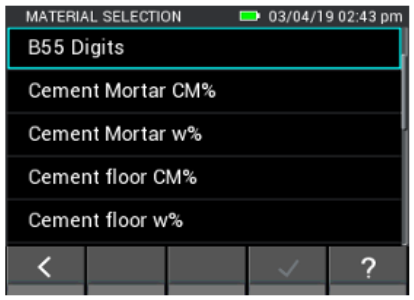
Compare the two readings. As the reading is relative, you can only gauge the increase of moisture to the affected area by the variance between the two numbers.

Screed – Non-Invasive [Equivalent]

Step 1: Connect the B55 BL to the CH 17. Once connected turn on the unit.

Step 2: Scroll through the menus using the touch screen until you reach the material menu.





"Scroll through the materials using touch screen until you are on the desired type. (for Concrete - CM or wt.%)

Once the material has been selected press the ""✓"" button to set the material"

Step 3: Take the reading by holding the B55 BL (Ball Electrode) against the material at a 90° and holding the "M" button. On release of the "M" Button, the reading will be saved.

The CM% moisture reading will be where shown.

A reading of <2-3CM% for concrete is considered dry.

CREATING HEALTHY INDOOR ENVIRONMENTS

"On The Job" Industry Experience Since 1995

Gyprock - Non-Invasive [Equivalent] 3 to 4mm Deep

Step 1: Connect the Gann CH17 with the MK8 Measuring Cable and the M20 Drive-in Electrode with the Gann OF15 Surface caps.

Step 2: Turn on the GANN CH 17. Access settings by pressing touch screen. Highlight settings and press the "✓" to confirm setting is Gypsum mixed plaster in wt.%

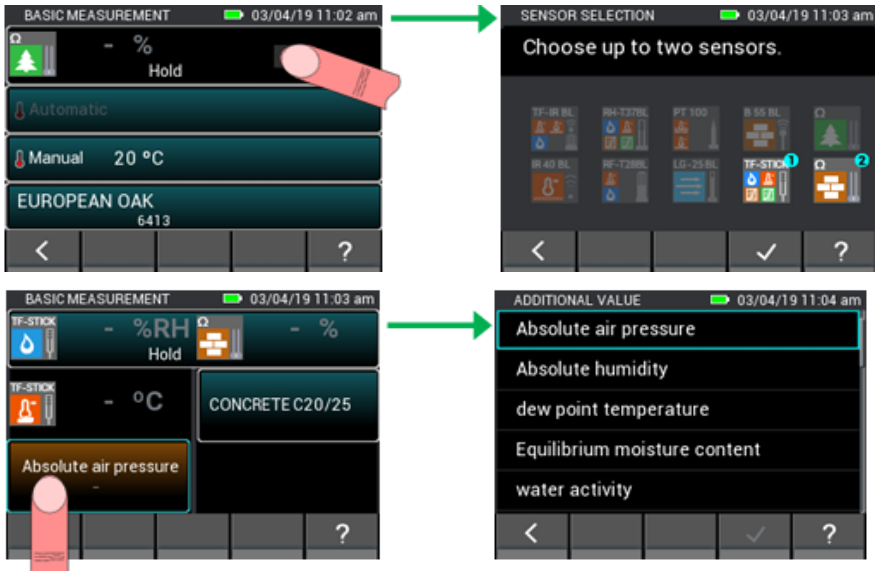
Step 3: Navigate back to the measuring menu by pressing "✓" with the ← selected. Hold "M" with the electrodes on the material. Release "M" to save the reading.

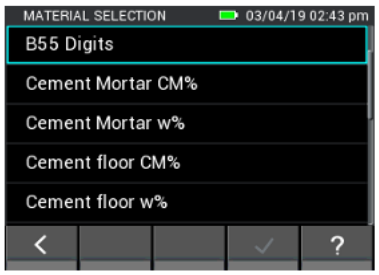
- ☑ You will know you are on the measuring menu by seeing "Hold" at the bottom left of the screen.
- ☑ Gyprock is considered dry at <0.5%.

Gyprock – Non-Invasive [Equivalent] (B55 BL)

Step 1: Connect the B55 BL to the CH 17. Once connected turn on the unit.

Step 2: Scroll through the menus using the touch screen until you reach the material menu.





"Scroll through the materials using touch screen until you are on the desired type. (for Concrete - CM or wt.%)

Once the material has been selected press the ""✓"" button to set the material"

Step 3: Scroll through the menus using touch screen buttons until you reach the material menu. Once on the material menu press the "M" button to change the material.

Scroll through the materials using the touch screen until you are on the desired type. (for Gypsum Plaster - (wt.%) and (CM%). For plaster, a reading in wt.% is commonly used. <.5% is considered dry. Press "M" to confirm your material selection.

Concrete – Invasive [Equivalent]

Step 1: Get the Gann CH17 and, dependent on the required depth into concrete for reading, connect one of the following:

CH17

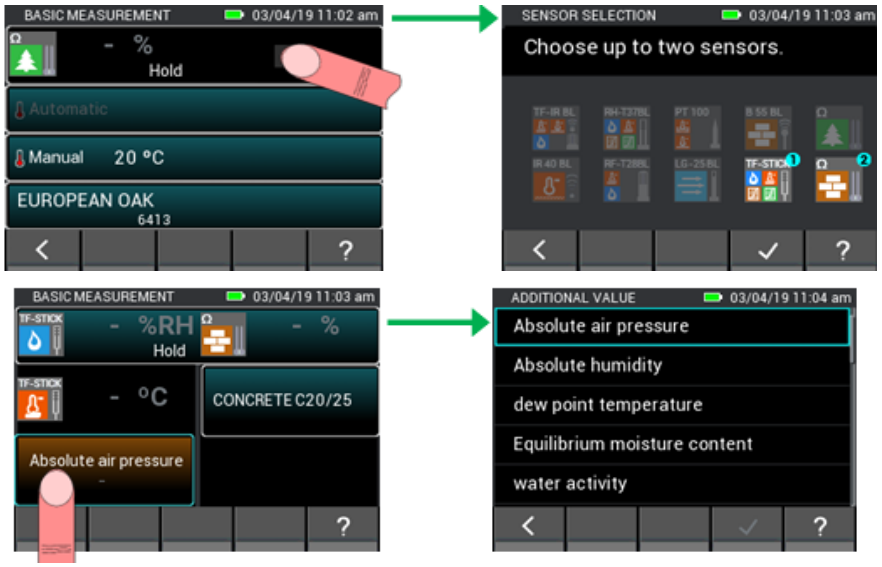
RH-T 37 BL

Step 2: Drill a hole into the concrete suitable for the chosen method of reading.

- Hygrometer 6mm 40% depth of the slab leave for 24 hours with tape over hole
- Then piece tape and place in hygrometer for up to 20 minutes
- Set CH 17 in the RH-T 37 setting to concrete it will give you a wt.%

Step 3: Note this will need to be completed every 10 square meters

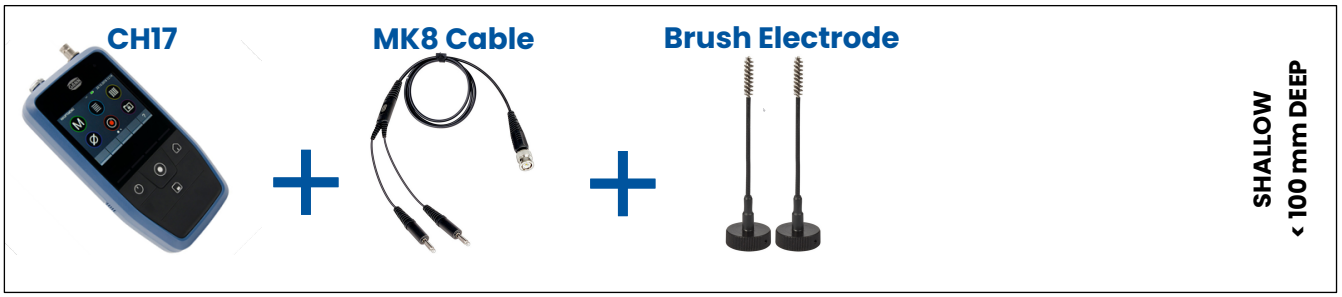
Step 4: Scroll through the menus using the touch screen until you reach the material menu (See below).

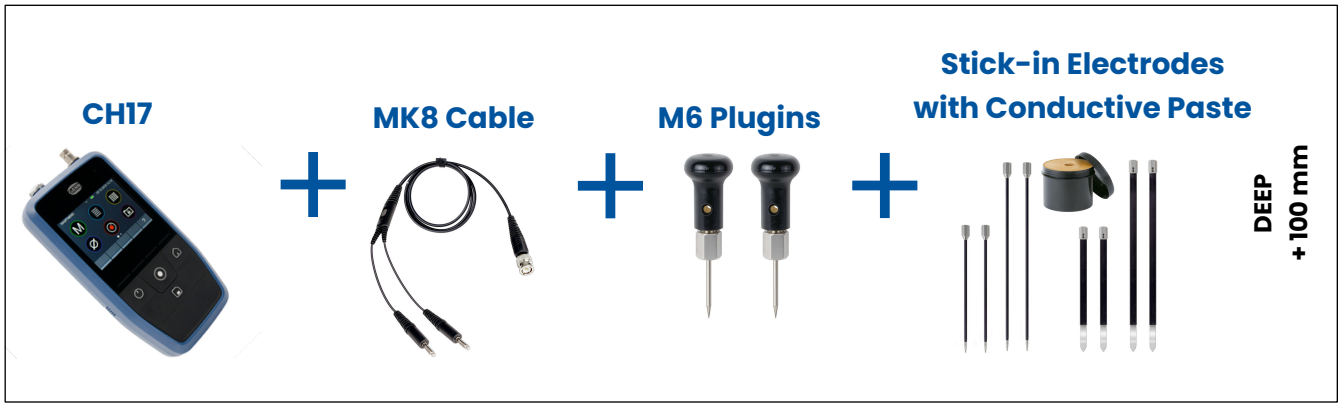


Scroll through the materials using touch screen until you are on the desired type. (for Concrete - CM or wt.%). Once the material has been selected press the "✓" button to set the material.

Concrete - Invasive [Absolute]

Step 1: Get the Gann CH17 and, dependent on the required depth into concrete for reading, connect one of the following:





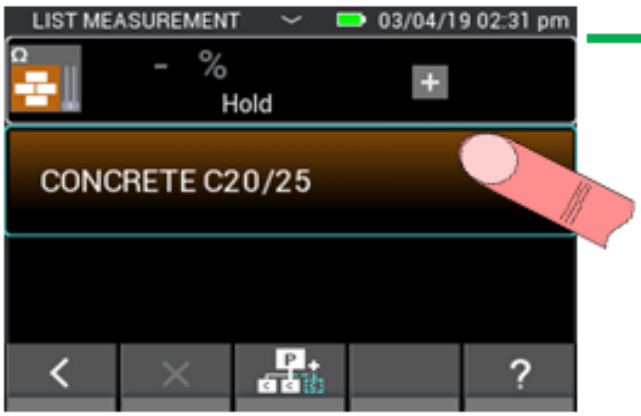
Step 2: Drill a hole into the concrete suitable for the chosen method of reading:

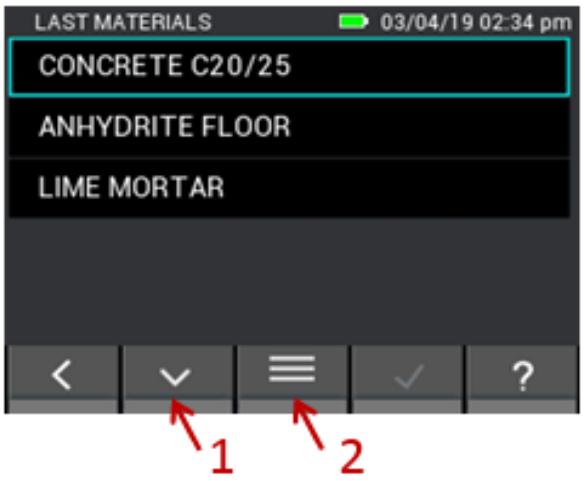
- Brush Electrode - 4mm
- Stick-in Pins - 5-6mm

Step 3: If using Stick-in electrodes, prior to inserting into concrete, ensure conductive paste is applied to the hole or tip of instrument.

Do so by mixing some with water in a separate container. Due to conductivity, make sure no paste is on the surface of the concrete when reading. (If using brush electrodes - **continue to step 4**)

Step 4: Scroll through the menus using either the ↑ or ↓ buttons until you reach the material menu (See below).





Scroll through the materials using touch screen until you are on the desired type. (for Concrete - CM or wt.%)

Once the material has been selected press the "✓" button to set the material

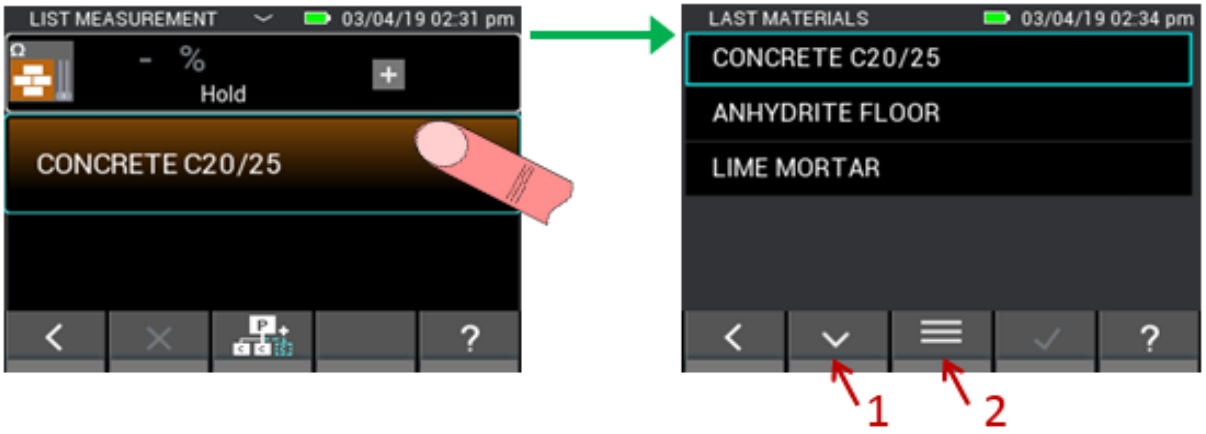
Screed - Invasive [Absolute]

Step 1: Connect the MK8 Measuring Cable to the Gann CH17 with the Brush electrodes attached at the end.

Step 2: Drill a 4mm hole into the screed

Step 3: Scroll through the menus using touch screen until you reach the material menu

Step 4: Scroll through the menus using either the ↑ or ↓ buttons until you reach the material menu (See below).



Scroll through the materials using touch screen until you are on the desired type. (for Concrete - CM or wt.%)

Once the material has been selected press the "✓" button to set the material

Block & Brick - Invasive [Equivalent]

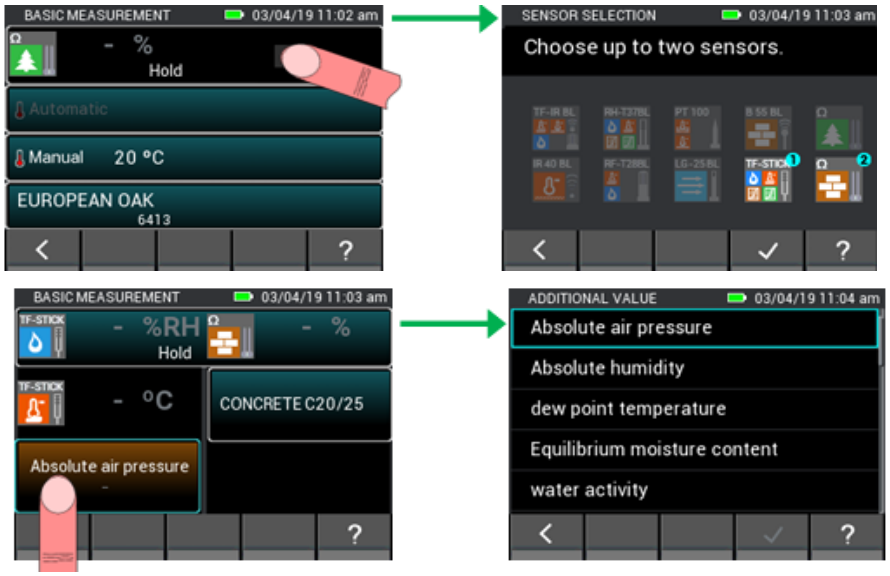
Step 1: Get the Gann CH17 and, dependent on the required depth into concrete for reading, connect one of the following:

Step 2: Drill a hole into the concrete suitable for the chosen method of reading.

- Hygrometer 6mm 40% depth of the slab leave for 24 hours with tape over hole
- Then piece tape and place in hygrometer for up to 20 minutes
- Set CH 17 in the RH-T 37 setting to concrete it will give you a wt.%

Step 3: Note this will need to be completed every 10 square meters

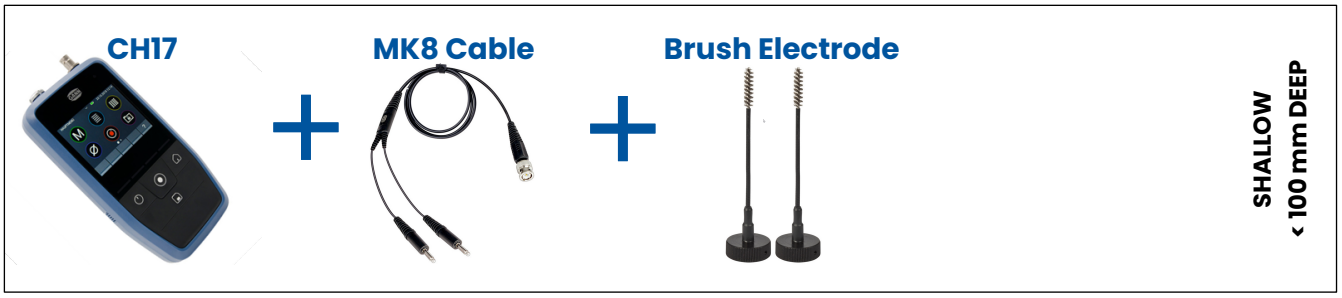
Step 4: Scroll through the menus using the touch screen until you reach the material menu (See below).

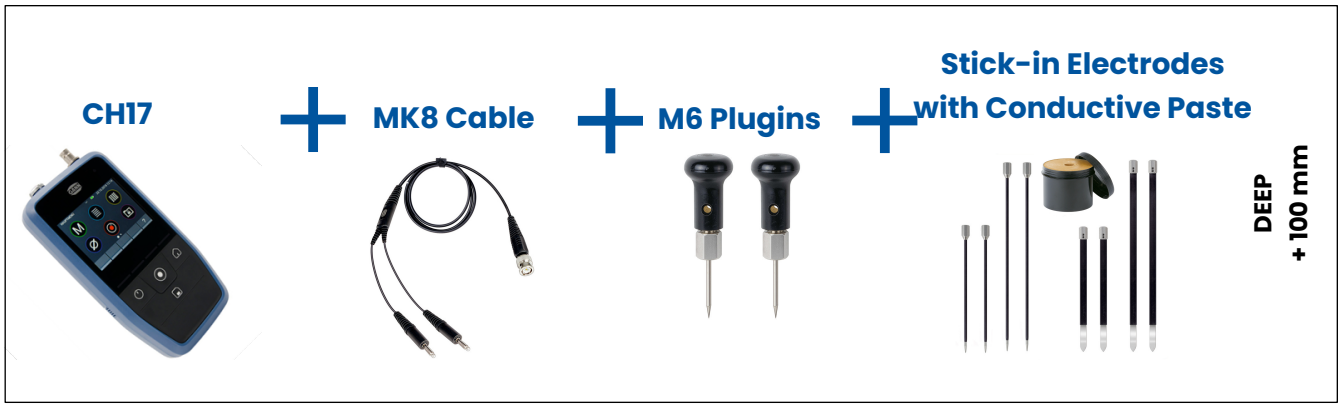


Scroll through the materials using touch screen until you are on the desired type. (for Concrete - CM or wt.%). Once the material has been selected press the "✓" button to set the material.

Block & Brick - Invasive [Absolute]

Step 1: Get the Gann CH17 and, dependent on the required depth into concrete for reading, connect one of the following:





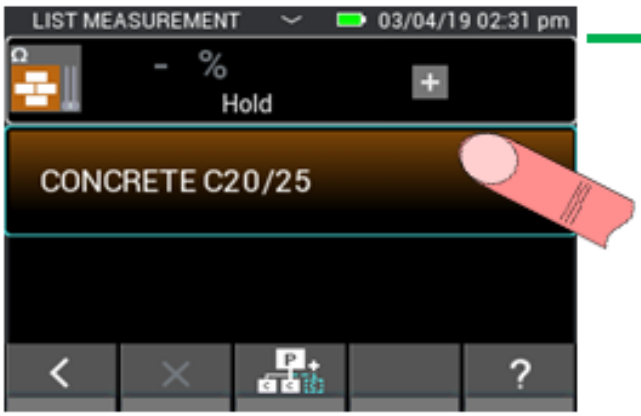
Step 2: Drill a hole into the concrete suitable for the chosen method of reading:

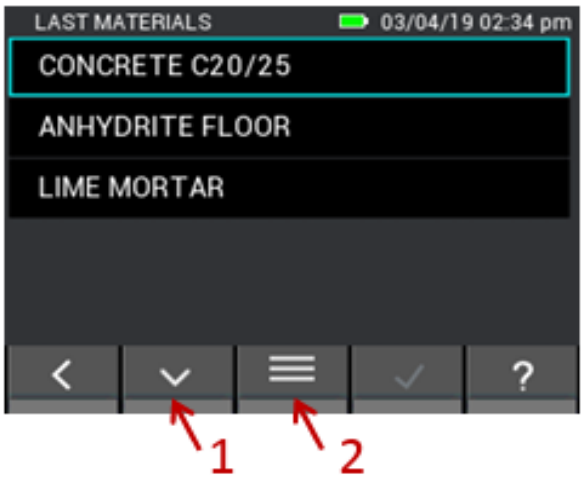
- Brush Electrode - 4mm
- Stick-in Pins - 5-6mm

Step 3: If using Stick-in electrodes, prior to inserting into concrete, ensure conductive paste is applied to the hole or tip of instrument.

Do so by mixing some with water in a separate container. Due to conductivity, make sure no paste is on the surface of the concrete when reading. (If using brush electrodes - **continue to step 4**)

Step 4: Scroll through the menus using either the ↑ or ↓ buttons until you reach the material menu (See below).





Scroll through the materials using touch screen until you are on the desired type. (for Concrete - CM or wt.%)

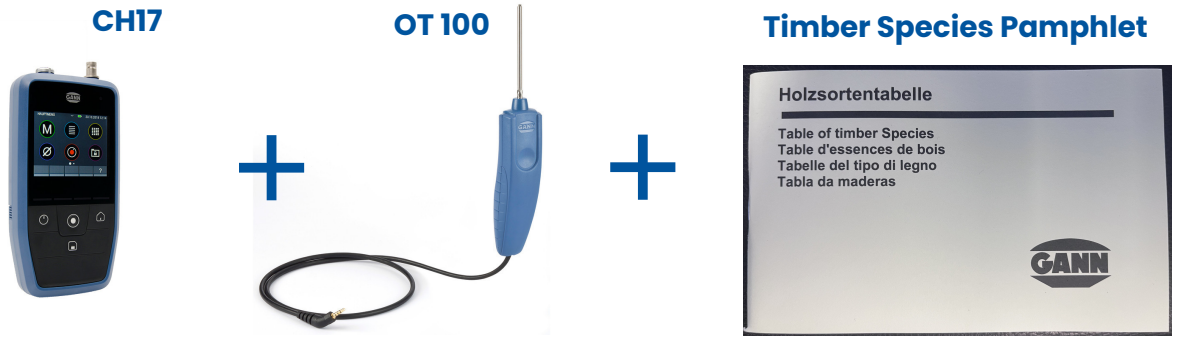
Once the material has been selected press the "✓" button to set the material

Timber - Invasive [Absolute]

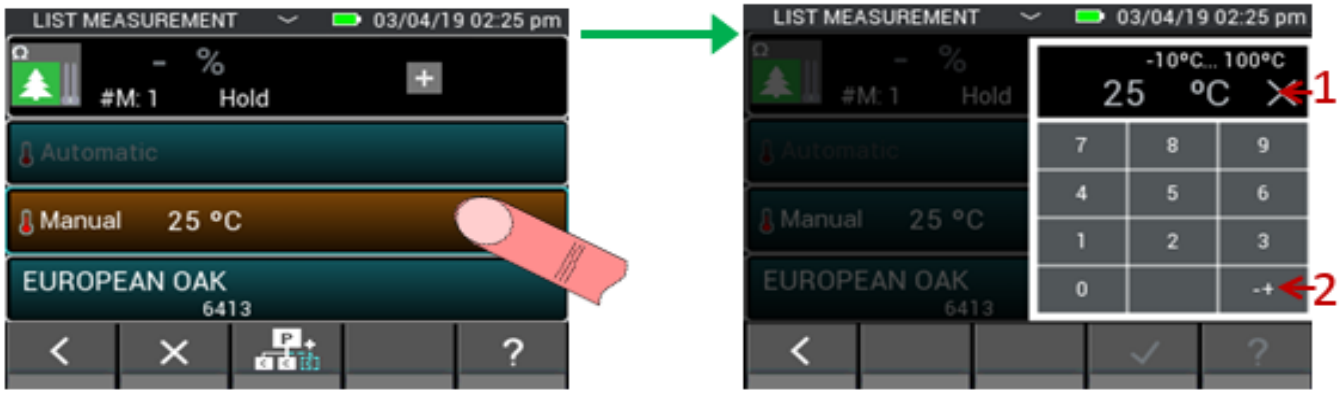
Step 1: Connect the Gann CH17 with the MK8 Measuring Cable and either the M20 Drive-in Electrode or M18 Ram-in Electrode

Step 2: Connect the Gann CH 17 with the TF-IR BL. Have the Timber Species Pamphlet accessible also.

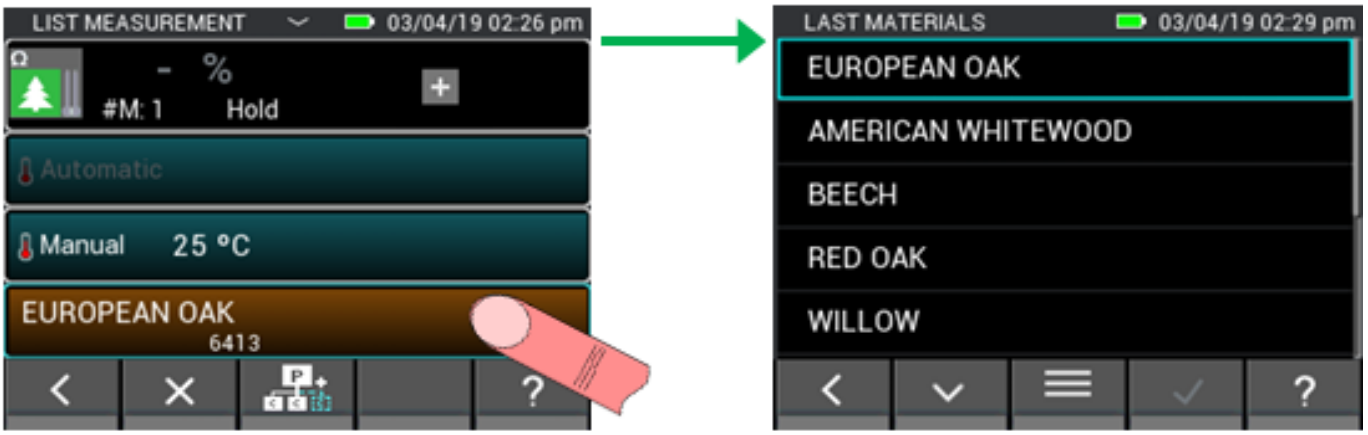
<u>OR</u> Step 2: Connect the Gann CH 17 with the OT 100 Temperature Sensor. Have the Timber Species Pamphlet accessible also.



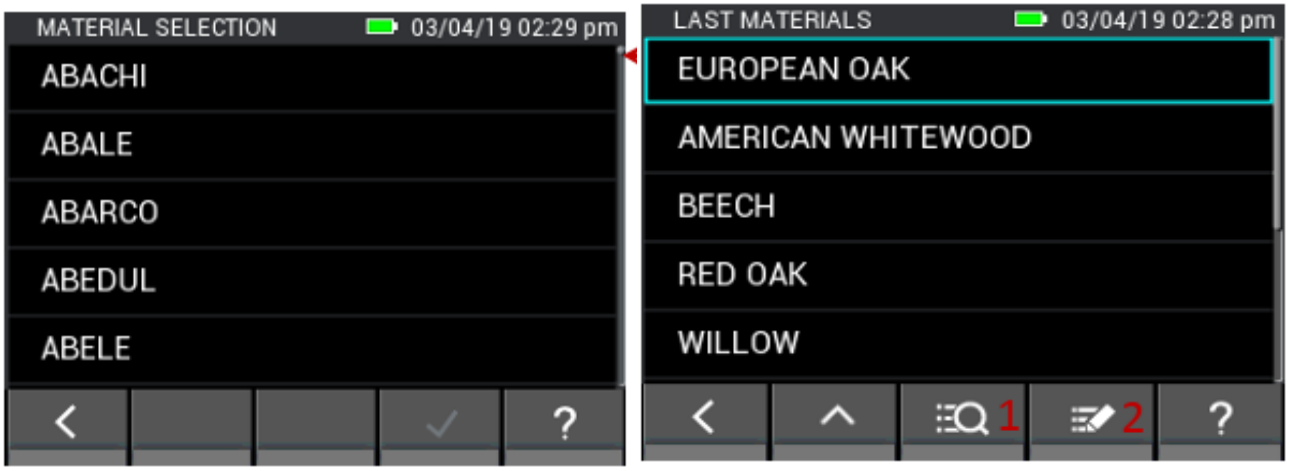
Step 3: Manual Temperature Compensation Alternatively to the automatic compensation temperature, the moisture measurement can also be performed using a manual compensation temperature that is entered by the user. The input must be between -10 °C and 100 °C (14 °F … 212 °F).



The type of wood can be selected from the wood type selection screen. The already visible wood types in the selection are saved favourites and can be selected directly. With button (1) in Figure 5-5, the functions of the lower bar can be changed; button (2) is used to display the complete list of wood types.



The complete list of wood types is in alphabetical order. The desired type can be selected and confirmed here. Slow scrolling is possible using vertical swipe gestures over the middle. The scroll bar on the right side is used for fast scrolling (see Figure 5-6: Complete list of wood types (1))

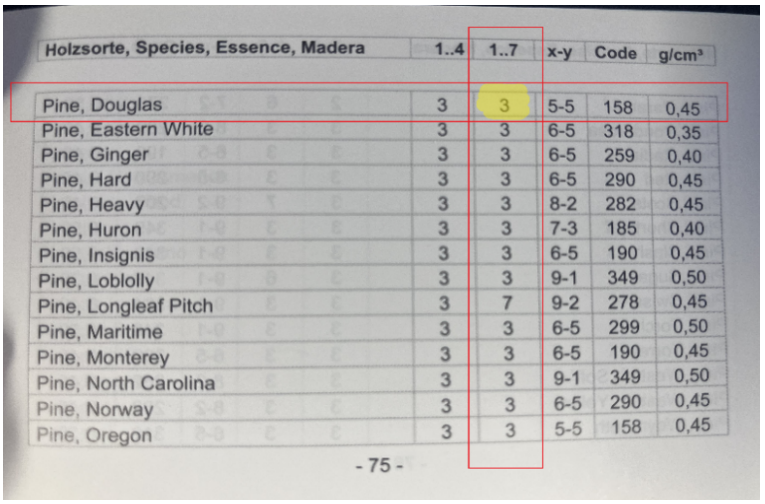


If the functions of the lower bar are changed in the wood type selection (Figure 5-5), buttons are displayed with the option (1) for keyword search and option (2) for editing the wood favourites list.

In the wood type search, the complete name of a wood type or only any part of it can be entered before the search is started. Button (1) in Figure 5-8 clears the entire input; button (2) deletes the last character of the input.

When editing the wood favourites, you arrive at the following menu (Figure 5-9). It is possible here to add new favourites and remove existing ones. With button (1), a search for a wood type can be performed again. With button (2), the wood favourites list can be sorted alphabetically. Button (3) enables deletion of entries from the wood favourites list. By tapping and holding a material button in the favourites list, this can be moved up and down in the list by swiping.

Step 4: Select types 1-7, based on the expected species of timber on the Timber Species Booklet (See Below)



Holzsorte, Species, Essence, Madera	1..4	1..7	x-y	Code	g/cm³
Pine, Douglas	3	3	5-5	158	0,45
Pine, Eastern White	3	3	6-5	318	0,35
Pine, Ginger	3	3	6-5	259	0,40
Pine, Hard	3	3	6-5	290	0,45
Pine, Heavy	3	3	8-2	282	0,45
Pine, Huron	3	3	7-3	185	0,40
Pine, Insignis	3	3	6-5	190	0,45
Pine, Loblolly	3	3	9-1	349	0,50
Pine, Longleaf Pitch	3	7	9-2	278	0,45
Pine, Maritime	3	3	6-5	299	0,50
Pine, Monterey	3	3	6-5	190	0,45
Pine, North Carolina	3	3	9-1	349	0,50
Pine, Norway	3	3	6-5	290	0,45
Pine, Oregon	3	3	5-5	158	0,45

- 75 -

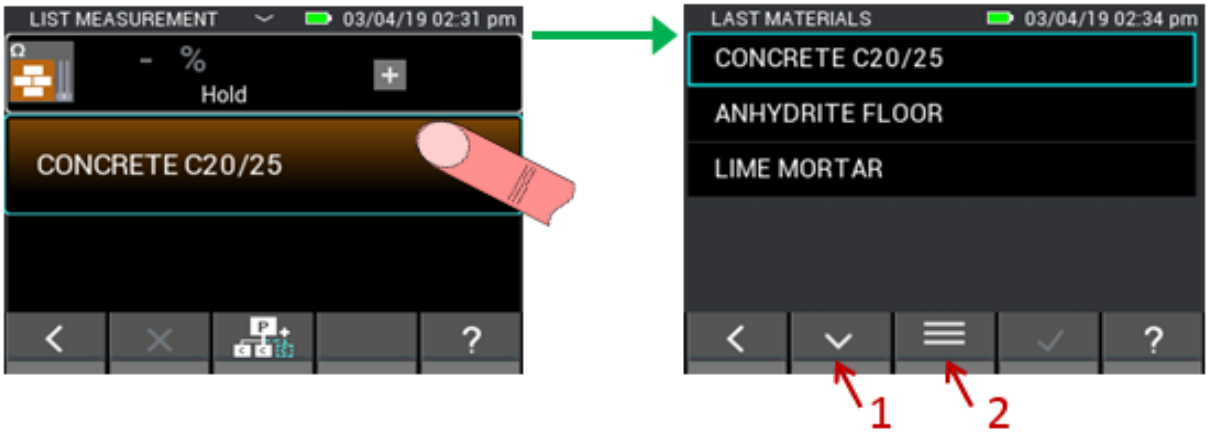
Step 5: Press and release "M" to save the reading.

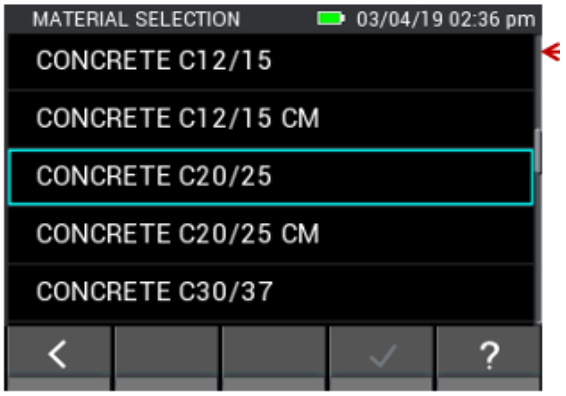
- ☑ You will know you are on the measuring menu by seeing "Hold" at the bottom left of the screen.
- ☑ Timber is considered dry at <10-15CM%.

Gyprock - Invasive [Absolute]

Step 1: Connect the MK8 Measuring Cable to the Gann CH17 with the M20 Drive-In probe attached. Turn on the device.

Step 2: Scroll through the menus using either the ↑ or ↓ buttons until you reach the material menu (See below).





Scroll through the materials using touch screen until you are on the desired type. (Can use Res_Digits or Gypsum Plaster)

Once the material has been selected press the "✓" button to set the material

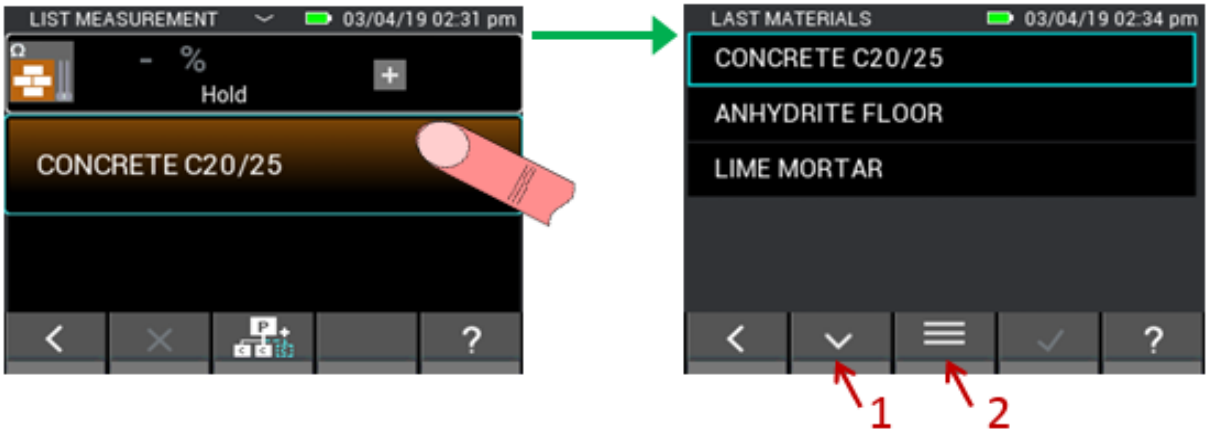
Step 3: Using Res_Digits - Once probe and cable set up connected to CH17, push in to gyprock and press the measurement button (1-2 seconds). Do the same to an unaffected area. To be classified dry, digit reading should be between 8-12 readings.

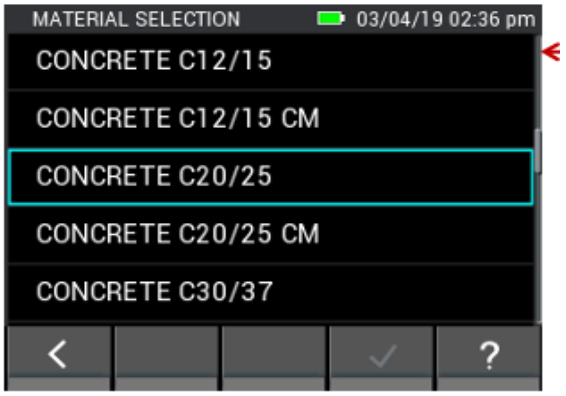
Using Gypsum Plaster - the reading should be <0.5% to be considered dry.

Carpet - Invasive [Relative]

Step 1: Connect the MK8 Measuring Cable to the Gann CH17 with the M20 Drive-In probe attached. Turn on the device.

Step 2: Scroll through the menus usingtouch screen until you reach the material menu (See below).





Scroll through the materials using touch screen until you are on the desired type. (use RES Digits)

Once the material has been selected press the "✓" button to set the material

Step 3: Once probe and cable set up connected to CH17, push in to carpet and press the measurement button (1-2 seconds). Do the same to an unaffected area.

To be classified dry, digit reading should be between 8-12 readings.