

# Concrete Moisture Meter

## Instruction Manual

for Wagner Model C575



**WAGNER**  
ELECTRONICS

**1-800-944-7078**

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## C575 Features:

Your Wagner Electronics hand-held concrete meter was designed using electromagnetic wave technology, to make fast assessment of concrete slab drying patterns easy and inexpensive. Large areas can be surveyed quickly and easily. Wagner Electronics meters are nondestructive; they do not require drilling or driving pins into the concrete. They deliver information to the user instantly.

The C575 is designed to give an average moisture indication of everything within a specific area and depth penetration. However, readings from concrete moisture meters should NEVER be used to determine if a concrete slab is dry enough to install a floor covering. Electronics inside the C575 converts the signal reading, which will appear on the analog dial. This unit requires a 9-volt alkaline battery, which is supplied. Replace battery when “Low Battery” light

comes on. Calibration of the meter can be checked by placing the meter on a flat, clean, metal surface at least 1/8 inch (3.2 mm) thick, such as a car or truck hood or a file cabinet. Press hand meter sensor firmly on surface, the reading should be 18 plus or minus 1.

The C575 is a rugged instrument, which will give many years of service if used with care and properly maintained. Clean the meter case with a soft rag lightly moistened with water. Do not subject the unit to temperatures in excess of 125 degrees F (52°C). Always store in a cool dry place.

Note that the meter sensor is covered with a self-adhesive replaceable Teflon abrasion pad. Replace Teflon pad when worn through to sensor, or when edges or corners loosen. Do not use the meter with debris under a loosened edge or corner.

Replacement Teflon pads are available from your distributor or by calling Wagner Electronics Customer Service (541) 582-0541.

## Other important features include:

- Provides fast readings
- Quickly survey concrete surface areas
- The choice of professionals
- Scans 1½ in. x 2½ in. x ¾ in. (3.81 cm x 6.35 cm x 1.91 cm)
- Pocket size, easy to read analog meter
- Battery, case, instructions included
- One touch operation, shuts off in one minute
- Designed for continuous use
- One-Year Warranty

## Meter Storage:

For a long service life, it is important to store your meter properly. Avoid excessively hot or cold locations, and keep the meter in the case provided. Do not store the meter in an area with excessive electro-magnetic interference, such as near an electric motor, or where it could be crushed, such as in front of a forklift.

## To Operate:

Press and release the ON button. Take readings by pressing the bottom of the meter to the concrete surface. The meter will automatically shut off after 60 seconds of inactivity. The shutdown timer will reset anytime the meter reading changes or the ON button has been pressed.

## Taking a Reading:

1. The surface of the concrete should be brushed clean of loose debris and dust.
2. Turn on the meter and verify the “Low Battery” light does not illuminate.
3. Place the sensor of the meter on the area of the concrete to be tested. Press down firmly, making sure the sensor rests flat against the concrete.
4. On a rough surface take a number of readings close to one another. If the readings vary, use the highest reading. On a normal smooth surface it is



also recommended that you take a number of tests close to one another and use the highest reading.

5. Moisture readings in concrete may be affected by the following factors:
  - The type of aggregate used in the mix may contain iron or other metals. This could cause the reading to be high or read the same value no matter where you place the meter.
  - A rebar or metal screen too close to the surface will cause a high reading. Move the meter to several areas for more comparisons.

## Interpreting the Reading:

Readings are relative and are useful for comparing moisture levels in various locations of a concrete slab and to determine where to place additional tests using ASTM F2170. Place additional tests in locations where the C575 reads the highest. It is strongly advised that ASTM F2170 relative humidity testing methods be used to determine if the floor is ready for the floor covering. Do not use the C575 to determine if the concrete slab is ready for a floor covering.

This meter is designed to provide information as to where the wettest parts of a slab are so further testing can be done in those areas. The meter does not measure vapor pressure (the water that leaves during the curing stage) in the concrete or the pounds of water per square foot, etc. The information provided by meter

## Interpreting the Reading: *Cont'd*

readings is affected by a number of variables so the readings must be considered relative on a slab by slab basis. Use the meter to determine the best locations for placement of the manufacturer's suggested test. Further testing methods such as relative humidity testing should always be used to determine if the concrete is ready for the floor covering installation.

## Questions & Answers:

### #1 Wagner Electronics Technology

- Q:** I'm nervous about buying a new technology. How long has Wagner Electronics been designing and manufacturing this type of moisture meter?
- A:** Since 1966, Wagner Electronics has been providing quality moisture measurement equipment.

### #2 Surface Moisture

- Q:** Is my Wagner Electronics moisture meter affected by surface moisture?
- A:** Most moisture meters can be affected by standing water or visible water on the materials you are measuring. You should always wipe off as much excess water as possible.

### #3 Meter Ruggedness

- Q:** How rugged is my C575 moisture meter?
- A:** Your C575 meter is designed for compact convenience. It can be damaged by being dropped or slammed down on concrete or other hard surfaces, as can any meter.

### #4 Meter Safety

- Q:** Is the Wagner Electronics' technology safe to use?
- A:** The emissions from Wagner Electronics' electromagnetic wave technology are as safe as the emissions from a standard cell phone.

## C575 Meter Specifications:

### Size:

Length:	4 $\frac{1}{16}$ inches	(11.59 cm)
Width:	2 $\frac{3}{4}$ inches	(6.99 cm)
Height:	1 $\frac{1}{16}$ inches	(3.97 cm)

### Scanning Area:

Length:	2 $\frac{1}{2}$ inches	(6.35 cm)
Width:	1 $\frac{1}{2}$ inches	(3.81 cm)

**Scanning Depth:**  $\frac{3}{4}$  inches (1.91 cm)

**Power:** 9 volt Alkaline battery

**Auto Power Shutdown:** 60 seconds

**Measurement Range:** 0 – 20

## Repair Service:

In the event of damage or failure, download the C575 repair form at [www.wagnerrepair.com](http://www.wagnerrepair.com). Once you have completed the repair form, please package the form with the meter and ship to Wagner Electronics as indicated below. When you send your meter, be sure it is insured. We cannot be responsible for items that do not reach us.

The Technical Services Department is available during normal business hours—7:30 a.m. to 4:00 p.m. Pacific Standard Time, Monday through Friday.

**Voice:** (541) 582-0541

**Fax:** (541) 582-4138

**E-Mail:** [support@wagnermeters.com](mailto:support@wagnermeters.com)

**Mail:** Technical Services Department -Repair  
Wagner Electronics  
326 Pine Grove Road  
Rogue River, Oregon 97537 USA



## Wagner Electronics Limited Warranty

Wagner Electronic Products, Inc. warrants this product against defects in material and workmanship for one (1) year from the date of purchase, subject to the following terms and conditions:

Wagner's liability under this warranty shall be limited, at Wagner's option, to the repair or replacement of this product or any part thereof, which is demonstrated to be defective. To exercise this warranty, the customer must telephone for a repair form or download it from [www.wagnerrepair.com](http://www.wagnerrepair.com) and follow factory instructions for shipment. This limited warranty does not apply if the product has been damaged by accident, negligent handling, misuse, alteration, damage during shipment, or improper service. Wagner Electronic Products, Inc., shall in no event be liable for any breach of warranty or defect in this product, which exceeds the amount of purchase price of the product. Wagner Electronic Products, Inc., shall not be liable for incidental or consequential damages for the breach of any express or implied warranty with respect to this product or its calibration.

With proper care and maintenance, the meter should stay in calibration; however, because Wagner Electronic Products, Inc., has no control over the manner in which the unit will be used, it makes no warranty that the meter will stay in calibration for any specific period of time. Wagner Electronic Products, Inc., recommends returning the unit to the factory for a diagnostic checkup and recalibration in the event the meter is dropped or

## **Warranty:** *cont'd.*

otherwise damaged, or the meter accuracy is suspect.

This warranty is in lieu of all other warranties, whether oral or written, express or implied. Any implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are excluded. If this product is not in good working order as warranted above, the customer's sole remedy shall be repair or replacement as provided above. Wagner Electronic Products, Inc. shall not be liable for incidental or consequential damages for the breach of any express or implied warranty with respect to this product.

This warranty is personal to the customer purchasing the product from Wagner Electronic Products, Inc. and is not transferable. This warranty also gives you specific legal rights, and you may also have other rights, which may vary, from state to state.

The agents and employees of Wagner Electronic Products, Inc. are not authorized to make modifications of this warranty or additional warranties binding on Wagner Electronic Products, Inc. Accordingly, additional statements, whether oral or written, except written statements from an officer of Wagner Electronic Products, Inc. do not constitute warranties and should not be relied upon by the customer.

Wagner Electronic Products, Inc. shall in no event be liable for any breach of warranty or defect in this product, which exceeds the amount of the purchase price of the product.

## **FCC Compliance Statement**

This equipment has been tested and found to comply within the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Move the equipment away from the receiver
- Plug the equipment into an outlet on a circuit different from that to which the receiver is powered.
- If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

**CAUTION:** Only equipment certified to comply with Class B (computer input/output devices, terminals, printers, etc.) should be attached to this equipment. Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the user's authority to operate such equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

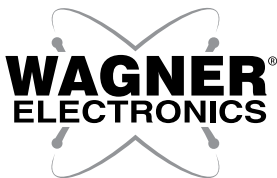
- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### **Canadian Department of Communications compliance statement**

This equipment does not exceed class B limits per radio noise emissions for digital apparatus, set out in the Radio Interference Regulation of the Canadian Department of communications. Operation in a residential area may cause unacceptable interference to radio and TV reception, requiring the owner or operator to take whatever steps are necessary to correct the interference.

### **Avis de conformité aux normes du ministère des Communications du Canada**

Cet équipement ne dépasse pas les limites de Classe B d'émission de bruits radioélectriques pour les appareils numériques, telles que prescrites par le Règlement sur le brouillage radioélectrique établi par le ministère des Communications du Canada. L'exploitation faite en milieu résidentiel peut entraîner le brouillage des réceptions radio et télé, ce qui obligerait le propriétaire ou l'opérateur à prendre les dispositions nécessaires pour en éliminer les causes.



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[www.wagnermeters.com](http://www.wagnermeters.com)