Concrete Moisture Meter
Instruction Manual
for Wagner Model C575
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Proline Concrete C575 Features:

Your Wagner hand-held concrete meter was designed using electromagnetic wave technology, to make fast assessment of moisture condition in concrete easy and inexpensive. Large areas can be surveyed quickly and easily. Wagner meters are non-destructive, 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. 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 \( \frac{1}{8} \) 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.

Other important features of Wagner hand-held C575 meters include:

- Provides fast moisture content indication
- Quickly survey concrete surface areas
- The choice of professionals
- Scans \( \frac{1}{2} \) in. \( \times \) 2 \( \frac{1}{8} \) in. \( \times \) 3 \( \frac{1}{4} \) in. (3.81 cm \( \times \) 6.35 cm \( \times \) 1.91 cm)
- Pocket size, easy to read analog meter
- Battery, case, instructions included
- One touch operation, shuts off in 1 minute

Proline Concrete C575 Features:

cont'd.

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• 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 that 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. Always refer to the adhesive and/or floor covering recommendations for the acceptable moisture condition of the concrete.

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.
Readings must be evaluated relative to the purpose for which they were taken. You must determine the readings, which work best for the products you install or apply. Always refer to the adhesive and/or floor covering recommendations for the acceptable moisture condition of the concrete.

This meter is designed for easy operation and to provide a quick, initial indication of the moisture condition. The meter does not measure the amount of free water (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 readings is affected by a number of variables so the readings must be evaluated on the basis of professional knowledge and the user’s skill and judgment. After using the unit for a short period of time, the user will be able to take a reading and predict whether or not further testing is needed to accept the products being installed or applied.

If manufacturer requires further testing, use the meter to determine the best locations for placement of the manufacturer’s suggested test. Further testing methods such as relative humidity may also be used if higher accuracy is desired, even if the manufacturer of the material does not require it.

Interpreting the Reading:

Readings must be evaluated relative to the purpose for which they were taken. You must determine the readings, which work best for the products you install or apply. Always refer to the adhesive and/or floor covering recommendations for the acceptable moisture condition of the concrete.

This meter is designed for easy operation and to provide a quick, initial indication of the moisture condition. The meter does not measure the amount of free water (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 readings is affected by a number of variables so the readings must be evaluated on the basis of professional knowledge and the user’s skill and judgment. After using the unit for a short period of time, the user will be able to take a reading and predict whether or not further testing is needed to accept the products being installed or applied.

If manufacturer requires further testing, use the meter to determine the best locations for placement of the manufacturer’s suggested test. Further testing methods such as relative humidity may also be used if higher accuracy is desired, even if the manufacturer of the material does not require it.
Establishing Concrete Baselines:
Sub-Floor Installation Suitability for Wagner Concrete Meters

Wagner Concrete Meters detect moisture in concrete and provide a relative reading, not a percentage of relative humidity, moisture content or lbs./1000 sq. ft. (kg./304.8 sq.m.)

You can establish your own baseline or comfort range reading for use with the Wagner C575 meter. Once established, the baseline will become your “not-to-exceed” reading, indicating sub-floors that you cannot safely install your adhesives, paints or floor coverings over. You can easily establish your own baseline(s) in the following manner.

To establish baseline date on how the Wagner C575 Meter correlates a specific application of concrete moisture content by weight.

1. % MC (moisture content) = wet weight minus - dry weight divided by dry weight multiplied by 100

2. First obtain a sample of concrete that is oven
dried to evaporate all the water.

3. Weigh the sample of dry concrete.

4. Add a volume of water that is equal to 1/4 the weight of the dry concrete sample. By definition this is 25% MC (moisture content). Measure this sample with the C575 to see what the reading is at 25% MC.

For more details on this testing method visit our website at http://www.moisturemeters.com.

Questions & Answers:

#1 Wagner Technology

Q: I'm nervous about buying a new technology. How long has Wagner Electronic Products been designing and manufacturing this type of moisture meter?

A: Since 1966, Wagner Electronic Products has been providing quality moisture measurement equipment.

#2 Surface Moisture
Q: Is my Wagner 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 technology safe to use?
A: The emissions from Wagner’s electromagnetic wave technology are as safe as the emissions from a standard cell phone.
C575 Meter Specifications:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>4 3/8 inches (11.59 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>2 1/2 inches (6.99 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>1 1/4 inches (3.97 cm)</td>
</tr>
<tr>
<td>Scanning Area</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>2 3/4 inches (6.35 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>1 3/4 inches (3.81 cm)</td>
</tr>
<tr>
<td>Scanning Depth</td>
<td>1/2 inch (1.91 cm)</td>
</tr>
<tr>
<td>Power</td>
<td>9 volt Alkaline battery</td>
</tr>
<tr>
<td>Auto-Power Shutdown</td>
<td>60 seconds</td>
</tr>
<tr>
<td>Measurement Range</td>
<td>0 - 20</td>
</tr>
</tbody>
</table>
Repair Service:

In the event of damage or failure, contact the Wagner Electronics Technical Services Department to arrange for repair and to acquire RMA Number with the appropriate repair form. 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@wwwagner.com

Mail: Technical Services Department
Wagner Electronic Products, Inc.
326 Pine Grove Road
Rogue River, Or 97537
Wagner Electronic Products, Inc.
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, customer must telephone, fax or e-mail Wagner’s Customer Service Department for a RMA (Return Materials Authorization) number and 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
Warranty: cont'd.

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 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,
Warranty: cont’d

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 a residential installation. 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 harmful interference to radio communications, 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 plugged.
- If necessary, consult the dealer or an experienced radio/television technician for additional suggestions.

CAN/CE-M设备认证为符合加拿大工业部的“有限额的数字装置”认证，该认证适用于家用、商用和工业环境。该设备需遵守加拿大无线电干扰法规，该法规限制了该设备对无线电和电视接收的干扰。如果该设备对无线电或电视接收造成了干扰，则用户可以采取以下措施来解决干扰问题：重新配置天线位置、增加设备与接收设备之间的距离或插入电路中。如果以上方法无效，则应联系经销商或专业无线电/电视技术人员寻求解决方案。

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 Regulations 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 au 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 les réglementations du ministère des Communications du Canada. L’exploitation faite en milieu résidentiel peut entraîner le brouillage des réceptions radio et TV, ce qui oblige le propriétaire ou l’exploitant à prendre les dispositions nécessaires pour en éliminer les causes.