

**Where Do I Find Everything I Need for Process Measurement and Control? OMEGA...Of Course!**  
*Shop online at omega.com<sup>sm</sup>*

**NOTE:** This instrument has a very high input resistance. Every part has good insulation. Please keep it in a dry, dustproof place.

**TEMPERATURE DATA ACQUISITION**

- ☑ Thermocouple, RTD & Thermistor Assemblies
- ☑ Probes, Connectors, Panels & Software
- ☑ Data Acquisition & Engineering Systems
- ☑ Communications-Based Acquisition Systems
- ☑ Plug-in Cards for Apple, IBM & Compatibles
- ☑ Data Logging Systems
- ☑ Recorders, Printers & Plotters

**HEADERS**

- ☑ Heating Cable
- ☑ Immersion & Band Heaters
- ☑ Cartridge & Strip Heaters
- ☑ Flexible Heaters
- ☑ Laboratory Heaters

**ENVIRONMENTAL MONITORING AND CONTROL**

- ☑ Metering & Control Instrumentation
- ☑ Refractometers
- ☑ Pumps & Tubing
- ☑ Air, Soil & Water Monitors
- ☑ Industrial Water & Wastewater Treatment
- ☑ pH, Conductivity & Dissolved Oxygen Instruments

**pH/CONDUCTIVITY**

- ☑ pH Electrodes, Testers & Accessories
- ☑ Benchtop/Laboratory Meters
- ☑ Controllers, Calibrators, Simulators & Pumps
- ☑ Industrial pH & Conductivity Equipment

**PRESSURE, STRAIN AND FORCE**

- ☑ Transducers & Strain Gages
- ☑ Load Cells & Pressure Gages
- ☑ Displacement Transducers
- ☑ Instrumentation & Accessories

**FLOW/LEVEL**

- ☑ Rotameters, Gas Mass Flowmeters & Flow Computers
- ☑ Air Velocity Indicators
- ☑ Turbine/Paddlewheel Systems
- ☑ Totalizers & Batch Controllers

**PH/CONDUCTIVITY**

- ☑ pH Electrodes, Testers & Accessories
- ☑ Benchtop/Laboratory Meters
- ☑ Controllers, Calibrators, Simulators & Pumps
- ☑ Industrial pH & Conductivity Equipment

**Ω OMEGA®**

<b>OMEGAnet® On-Line Service</b> <a href="http://omega.com">omega.com</a>	<b>Internet e-mail</b> <a href="mailto:info@omega.com">info@omega.com</a>
--	--

**Servicing North America:**

<b>U.S.A.:</b> ISO 9001 Certified OMEGA Engineering, Inc., One Omega Drive, P.O. Box 4047 Stamford, CT 06907-0047 Toll-Free: 1-800-826-6342 Tel: (203) 359-1660 FAX: (203) 359-7700 e-mail: <a href="mailto:info@omega.com">info@omega.com</a>	<b>Canada:</b> 976 Bergar Laval (Quebec), H7L 5A1 Canada Toll-Free: 1-800-826-6342 TEL: (514) 856-6928 FAX: (514) 856-6886 e-mail: <a href="mailto:info@omega.com">info@omega.com</a>
---	---

**For immediate technical or application assistance:**

<b>U.S.A. and Canada:</b> Sales Service: 1-800-826-6342/1-800-TC-OMEGA® Customer Service: 1-800-622-2378/1-800-622-BEST® Engineering Service: 1-800-872-9436/1-800-USA-WHEN®	<b>Mexico/Latin Ameica:</b> En Español: 001 (203) 359-7803 FAX: 001 (203) 359-7807 <a href="mailto:info@omega.com.mx">info@omega.com.mx</a> e-mail: <a href="mailto:espanol@omega.com">espanol@omega.com</a>
---	--

**Servicing Europe:**

<b>Benelux:</b> Managed by the United Kingdom Office Toll-Free: 0800 099 3344 TEL: +31 20 347 21 21 FAX: +31 20 643 46 4 e-mail: <a href="mailto:sales@omegaeng.nl">sales@omegaeng.nl</a>	<b>United Kingdom:</b> ISO 9001 Certified OMEGA Engineering Ltd. One Omega Drive River Bend Technology Centre Northbank Irlam, Manchester M44 5BD United Kingdom Toll-Free: 0800-488-488 TEL: +44 (0) 161 777-6611 FAX: +44 (0) 161 777-6622 e-mail: <a href="mailto:sales@omega.co.uk">sales@omega.co.uk</a>
--	--

<b>Czech Republic:</b> Frystatska 184 733 01 Karviná, Czech Republic Toll-Free: 0800-1-66342 TEL: +420-59-6311899 FAX: +420-59-6311114 e-mail: <a href="mailto:info@omegashop.cz">info@omegashop.cz</a>	<b>France:</b> Managed by the United Kingdom Office Toll-Free: 0800 466 342 TEL: +33 (0) 161 37 29 00 FAX: +33 (0) 130 57 54 27 e-mail: <a href="mailto:sales@omega.fr">sales@omega.fr</a>
---	---

**Germany/Austria:**  
 Daimlerstrasse 26  
 D-75392 Deckenpfronn, Germany  
 Toll-Free: 0800 6397678 TEL: +49 (0) 7056 9398-0  
 FAX: +49 (0) 7056 9398-29 e-mail: [info@omega.de](mailto:info@omega.de)

It is the policy of OMEGA Engineering, Inc. to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

The information contained in this document is believed to be correct, but OMEGA accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

**WARNING:** These products are not designed for use in, and should not be used for, human applications.

#### WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from the date of purchase. OMEGA's Warranty adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion, or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

**OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY:** The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

#### RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence. The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

OMEGA is a registered trademark of OMEGA ENGINEERING, INC.

© Copyright 2012 OMEGA ENGINEERING, INC. All rights reserved. This document may not be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form, in whole or in part, without the prior written consent of OMEGA ENGINEERING, INC.

**PRODUCT DESCRIPTION**

The diagram shows the HGM68 Grain Moisture Meter with the following labels:

- \*Battery Compartment/Cover** (Located on back)
- "FUNCTION" switch** (OFF, %H<sub>2</sub>O, TEMP (F & C))
- "MATERIAL" switch**
- LED's**
- Display**
- Plug**
- Measurement Needles**

**MEASUREMENT OPERATION:**

- 1. Moisture content:**
  - A. Insert the plug of the probe into the socket of the meter.
  - B. Hold the handle of the measurement needles and leave the needles in the air, i.e. don't let needles touch anything except air.
  - C. Slide the FUNCTION switch to the "%H<sub>2</sub>O" (moisture content) position to switch on power. You will hear two clicking sounds. This is a self-calibration conducted by the instrument.
  - D. Select the type of grain, foodstuff or feedstuff to be measured by pressing the MATERIAL SELECTION switch.
  - E. Insert the needles into the grain to be measured. The reading on the display may change if the needles stay in the grain for an extended period of time.

**BATTERY REPLACEMENT:**

1. When it is necessary to replace the battery (battery voltage less than approx. 5V), the "battery" symbol will appear on the display.
2. Loosen the screws on the back of the battery cover and remove the old batteries.
3. Install new batteries correctly into the case. Permanent damage to the circuit can result from incorrect installation.
4. If the instrument is not to be used for an extended period of time, please remove the batteries.

**MEASUREMENT OPERATION:**

This unit is used for fast and accurate measurement of moisture and temperature in the process of allotment, acquisition, storage and machining of packed grains. It uses an exclusive one chip MICRO-PROCESSOR that offers wide-range and highly accurate measurements.

The use of durable, long-lasting components, including a strong, lightweight, ABS-plastic housing, assures maintenance-free performance for many years. This ergonomically designed housing has been molded to fit comfortably in either hand.

**FEATURES:**

- Digital display gives an exact reading with no guesswork or errors
- Compact, lightweight and easy operation
- Ideal for measuring packed grains, foodstuff and feedstuff

**SPECIFICATIONS:**

- Range: Moisture content: 8 to 20%
- Temperature: 14 to 131 F (-10° to 55°C)
- Operation Temp: 32° to 122 F (0° to 50°C)
- Operation Humidity: ≤85%
- Resolution: 0.1
- Accuracy: Moisture content: ±0.8°F/°C
- Display: 4 digits, 4" (10 mm) LCD (Liquid Crystal Display)
- Power Source: 4 "AA" batteries (included)
- Dimensions: 7" x 2.7" x 1.5" (178 x 68 x 39 mm)
- Weight: 9.9oz (280 g) approximately (not including probe and batteries)

Includes: Batteries, Manual and Hard Carrying Case

**Ω OMEGA®**

**HGM68**

**Grain Moisture Meter**

**M5075/0112**

*Shop online at: [omega.com](http://omega.com) e-mail: [info@omega.com](mailto:info@omega.com)*  
*For latest product manuals: [omegamannual.info](http://omegamannual.info)*

MADE IN CHINA

**1 YEAR WARRANTY**

**INSTRUCTION SHEET**