

# DRAPER<sup>®</sup>

## INSTRUCTIONS FOR Moisture Meter

Stock No.43618 Part No.MM100

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



DRAPER<sup>®</sup>

### GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself. All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

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## 2.1 CONTENTS

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# 1. TITLE PAGE

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## **1.1 INTRODUCTION:**

USER MANUAL FOR:

## **MOISTURE METER**

Stock no. 43618

Part no. MM100

## **1.2 REVISIONS:**

Date first published December 2013

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As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://www.drapertools.com/b2c/b2cmanuals.pgm>

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## **1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:**

**WARNING!** Information that draws attention to the risk of injury or death.

**CAUTION!** Information that draws attention to the risk of damage to the product or surroundings.

## **1.4 COPYRIGHT © NOTICE:**

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## 3. GUARANTEE

### 3.1 GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone Sales Desk: (023) 8049 4333 or Product Helpline (023) 8049 4344.

A proof of purchase must be provided with the tool.

If upon inspection it is found that a fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. The guarantee period covering parts/labour is 12 months from the date of purchase. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agents.

Note: If the tool is found not to be within the Terms of Warranty, repair and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights. Draper Tools Limited.

Note: This tool is intended for domestic use only.

## 4. INTRODUCTION

### 4.1 SCOPE

This instrument can be used to measure the moisture level in sawn timber (also paper, cardboard) and hardened materials (mortar, concrete and plaster). It displays the moisture level directly. In addition, it can also measure environment temperature. It is portable and very easy to use.

### 4.2 SPECIFICATION

Stock no. ....	43618
Part no. ....	MM100
Measurement range .....	Wood: 6-42%
.....	Material: 0.2-2.0%
.....	Temperature: 0-40°C OR 32-99°F
Resolution .....	Wood: 1%
.....	Material: 0.1%
.....	Temperature: 1°C/2°F
Accuracy .....	Wood: reading: <30%: +2%
.....	Material: <1.4%: +0.1%
Power supply .....	1.5V (4x LR44 batteries)
Display .....	LCD
Operating temperature .....	0°C to 45°C
Storage temp. ....	-10°C to 50°C
Dimensions .....	80mm x 40mm x 20mm
Weight including battery .....	0.05kg (approximately)

## 5. TECHNICAL DESCRIPTION

### LCD EXPLANATION



- ① Probe cover
- ② Probes
- ③ LCD display
- ④ On/Set button



### SYMBOL MEANINGS



Batteries are low and should be replaced.



Wood moisture measurement mode is selected. In this mode you can measure the moisture level of wood, paper or cardboard.



Material moisture measurement mode is selected. In this mode you can measure the moisture level of hardened material (mortar, concrete or plaster).

%

Percent.

C

Celsius degree.

F


Fahrenheit degree.


## 6. OPERATING THE MOISTURE METER

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1. Press the button once to turn on the meter.
2. Select desired measurement mode.
  - a. After the meter has been turned on press and hold down the button for about 3 seconds to enter setting mode (reading disappears, symbol starts flickering on the display).
  - b. While symbol is flickering on the display, press the button until the meter is in the desired measurement mode and the corresponding symbol flickers on the display.


The four modes are as follows:

Wood moisture measurement mode  flickers,

Material moisture measurement mode  flickers,


Centigrade temperature mode "C" flickers,

Fahrenheit temperature mode "F" flickers

- c. After the desired measurement mode is selected, don't operate the meter. Wait 3 seconds, the meter exits Setting Mode automatically. Now you can start to measure.
3. Performing Measurement
    - a. For temperature measurements, the display shows the present environment temperature directly.
    - b. To perform moisture measurements, read the reading on the display.
  4. Automatic Power-Off Feature
    - a. In wood moisture or material moisture or material moisture measurement mode, if you don't operate the meter (or the reading does not change) for approximately 15 seconds, the meter will turn off automatically.
    - b. In Celsius or Fahrenheit temperature measurement mode, the meter will turn off automatically approximately 15 seconds later.
    - c. In any mode, after the symbol  appears, the meter will turn off automatically approximately 15 seconds later. In this case, you should replace the batteries immediately.
  5. After the meter is turned on, pressing the button turns on the backlight. Approximately 3 seconds later, the backlight turns off automatically.

## 7. MAINTENANCE

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1. Keep the meter dry.
2. Keep the probes clean.
3. Keep the meter and battery out of the reach of children.
4. Some factors (such as material type and temperature) can effect moisture measurement result.
5. When the symbol  appears, the batteries are low and should be replaced.  
**Ensure that battery polarity connections are correct when replacing batteries.**  
If the meter is not to be used for any prolonged period, remove the batteries.

## 8. DISPOSAL

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### 8.1 DISPOSAL

- At the end of the products working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.  
In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not abandon in the environment.
- Do not dispose of WEEE\* as unsorted municipal waste.

\* Waste Electrical & Electronic Equipment.



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