

# Grain Moisture Meter



**Model:**  
 MC-7821 (Affordable Model)  
 MC-7825G (Functional Model)  
 MC-7828G (Statistical Model)

## Applications

Used for fast and accurate measurement of moisture in the process of allotment, acquisition, storage, machining of packed grains, feedstuff, powder.

## Features

\* The use of durable, long lasting components, including a strong, light weight ABS-plastic housing assures maintenance free performance for many years. The housing has been carefully shaped to fit comfortably in either hand.

### MC-7821

\* Able to measure the moisture of 4 kinds of grains. Can measure both moisture and temperature.

### MC-7825G

\* Can measure 37 kinds of grains.

\* Digital display gives exact reading with no guessing or errors while a colour coded light (LED) indicates the moisture condition of the material. This combined presentation of moisture measurement helps the user to map the extent of problems and monitor changes in condition precisely and reliably.

\* Automatic power off to conserve power.

\* Apply USB, Bluetooth data output to connect with PC.

### MC-7828G

\* Can measure 37 kinds of grains.

\* Digital display gives exact reading with no guessing or errors while a colour coded light (LED) indicates the moisture condition of the material. This combined presentation of moisture measurement helps the user to map the extent of problems and monitor changes in condition precisely and reliably.

\* Automatic power off to conserve power.

\* Apply USB, Bluetooth data output to connect with PC.

\* Applies the cup measurement, reducing operating error.

\* It realizes statistical function by displaying the Mean Value, Max. Value, Min. Value.

\* Can store 240 groups of measurements.

## Specifications

| Model                            |               | MC-7821                       | MC-7825G                                   | MC-7828G                        |
|----------------------------------|---------------|-------------------------------|--|---------------------------------|
| Grains                           |               | 4 Kinds                       | 37 Kinds                                   | 37 Kinds                        |
| Display                          |               | LCD                           | LCD  | LCD                             |
| LED Indicator                    |               | —                             | Green LED Represents a Safe, Air-dry State |                                 |
|                                  |               | —                             | Yellow LED Represents a Borderline State   |                                 |
|                                  |               | —                             | Red LED Represents a Damp State            |                                 |
| Range                            | Moisture      | 8~20%                         | 7~30%                                      | 7~30%                           |
|                                  | Temperature   | -10~55°C                      | —  | —                               |
| Resolution                       |               | 0.1                           | 0.1  | 0.1                             |
| Battery Indicator                |               | Low Battery Indicator         | Low Battery Indicator                      | Low Battery Indicator           |
| Auto Power Off                   |               | —                             | ✓  | ✓                               |
| Accuracy                         | Moisture      | ±0.6% / ±0.8% / ±1%           | ±(0.5% <i>n</i> +1)                        | ±(0.5% <i>n</i> +1)             |
|                                  | Temperature   | ±0.8°C                        | —  | —                               |
| Operating                        | Temperature   | 0~50°C                        | 0~50°C                                     | 0~50°C                          |
| Conditions                       | Humidity      | < 80%RH                       | < 90%RH                                    | < 90%RH                         |
| Power Supply                     |               | 4x1.5V AA Size (UM-3) Battery | 4x1.5V AAA Size (UM-4) Battery             | 4x1.5V AAA Size (UM-4) Battery  |
| Dimensions                       | Main Unit     | 178x68x39mm                   | 165x62x26mm                                | 150x65x30mm                     |
|                                  | Cup Sensor    | —                             | —  | 115x66x66mm                     |
| Long Rod Sensor                  |               | 368x44x25mm                   | 368x44x25mm                                | —                               |
| Length of Rod                    |               | 250mm                         | 250mm                                      | —                               |
| Diameter of Rod                  |               | 8mm                           | 8mm  | —                               |
| Distance Between 2 Rods          |               | 17mm                          | 17mm                                       | —                               |
| Short Pin Sensor                 |               | —                             | 157x44x44mm                                | —                               |
| Length of Pin                    |               | —                             | 10mm                                       | —                               |
| Diameter of Pin                  |               | —                             | 0.7mm                                      | —                               |
| Distance Between 2 Pins          |               | —                             | 3.5mm                                      | —                               |
| Weight (Not Including Batteries) |               | 420g                          | 320g                                       | 520g                            |
| Standard                         | Main Unit     | ✓                             | ✓  | ✓                               |
| Accessories                      | Rod Sensor    | ✓                             | ✓  | —                               |
|                                  | Cup Sensor    | —                             | —  | ✓                               |
|                                  | Carrying Case | B01                           | B04  | B04                             |
|                                  | Manual        | ✓                             | ✓  | ✓                               |
| Optional Accessories             |               | —                             | USB Cable with Software                    | USB Cable with Software         |
|                                  |               | —                             | Bluetooth Adapter with Software            | Bluetooth Adapter with Software |
|                                  |               | —                             | Short Pin Sensor                           | —                               |



## Grains, Codes & Range for MC-7825G/MC-7828G

| Code | Grain                    | Range |
|------|--------------------------|-------|
| Cd01 | Wheat / Rye (Whole)      | 7~31  |
| Cd02 | Wheat / Rye (Ground)     | 7~29  |
| Cd03 | Paddy (Whole)            | 7~29  |
| Cd04 | Paddy (Ground)           | 7~26  |
| Cd05 | Rice (Milled)            | 7~29  |
| Cd06 | Semolia                  | 7~25  |
| Cd07 | Maize / Corn (Whole)     | 7~27  |
| Cd08 | Maize / Corn (Ground)    | 7~26  |
| Cd09 | Soya Beans (Whole)       | 6~28  |
| Cd10 | Soya Beans (Ground)      | 5~22  |
| Cd11 | Barley Oats (Whole)      | 7~34  |
| Cd12 | Barley Oats (Ground)     | 7~29  |
| Cd13 | Coffee (Whole)           | 7~31  |
| Cd14 | Coffee (Ground)          | 7~26  |
| Cd15 | Coffee Green (Ground)    | 7~27  |
| Cd16 | Cocoa Beans (Whole)      | 4~13  |
| Cd17 | Linseed (Whole)          | 6~21  |
| Cd18 | Lentils (Ground / Whole) | 7~21  |
| Cd19 | Oilseed Rape (Ground)    | 5~26  |

| Code | Grain                                   | Range |
|------|---|-------|
| Cd20 | Mustard Seed (Whole)                    | 7~21  |
| Cd21 | Sorghum / Milo (Whole)                  | 7~28  |
| Cd22 | Sorghum / Milo (Ground)                 | 7~26  |
| Cd23 | Sunflower Seed (Whole)                  | 5~25  |
| Cd24 | Sugarbeet Seed (Whole)                  | 6~20  |
| Cd25 | Flax (Whole)                            | 5~21  |
| Cd26 | Peas (Progretra) (Ground)               | 7~27  |
| Cd27 | Peas (Ground)                           | 7~30  |
| Cd28 | Ground Nuts Hulled (Whole)              | 5~13  |
| Cd29 | Grass Seed/Rye Grass(Whole)             | 7~28  |
| Cd30 | Grass Seed/Cocksfoot(Whole)             | 6~23  |
| Cd31 | Four / Soft Wheat                       | 7~29  |
| Cd32 | Clover/White Seed(Whole)                | 6~24  |
| Cd33 | Clover/Red lucerne Seed(Whole)          | 6~22  |
| Cd34 | Buckwheat (Ground)                      | 7~29  |
| Cd35 | Brassicac/Brussels Sprout(Whole/Ground) | 5~15  |
| Cd36 | Beans/Tic/Winter(Ground)                | 7~25  |
| Cd00 | Fibre Material, for example Tea         |       |

