

# **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.
- $^{\ast}$  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.



#### **Contact Details:**

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## Specifications

Grains	Ma	odel	MC-7821	MC-7825G	MC-7828G
Display					
LED   Indicator					
Per		- '	LCD		
Range         Moisture         8-20%         7-30%         0-50%           Resolution         0.1         0.1         0.1           Battery Indicator         Low Battery Indicator         Low Battery Indicator         Low Battery Indicator           Accuracy         Moisture         ±0.6% / ±0.8% / ±1%         ±(0.5%n+1)         ±(0.5%n+1)           Accuracy         Moisture         ±0.6% / ±0.8% / ±1%         ±(0.5%n+1)         ±(0.5%n+1)           Accuracy         Temperature         ±0.6% / ±0.8% / ±1%         ±(0.5%n+1)         ±(0.5%n+1)           Accuracy         Moisture         ±0.6% / ±0.8% / ±1%         ±(0.5%n+1)         ±(0.5%n+1)           Accuracy         Moisture         ±0.6% / ±0.8% / ±1%         ±(0.5%n+1)         ±(0.5%n+1)           Accuracy         Moisture         ±0.6% / ±0.8% / ±1%         ±(0.5%n+1)         ±(0.5%n+1)         ±(0.5%n+1)           Accuracy         Moisture         ±0.6% / ±0.8% / ±1%         ±(0.5%n+1)	LED Ir	idicator	<del></del>	- · · · · · · · · · · · · · · · · · · ·	
Range         Moisture         8-20%         7-30%         0-50%           Resolution         0.1         0.1         0.1           Battery Indicator         Low Battery Indicator         Low Battery Indicator           Auto Power Off         —         √         √           Accuracy         Moisture         ±0.6% / ±0.8% / ±1%         ±(0.5%n+1)         ±(0.5%n+1)           Temperature         ±0.6% / ±0.8% / ±0.8%         ±(0.5%n+1)         ±(0.5%n+1			<del></del>	-	
Temperature			<del></del>		
Resolution         0.1         0.1         0.1           Battery Indicator         Low Battery Indicator         Low Battery Indicator           Auto Power Off         —         √         √           Accuracy         Moisture         ±0.6%/±0.8%/±1%         ±(0.5%n+1)         ±(0.5%n+1)           Temperature         ±0.6%/±0.8%/±1%         ±(0.5%n+1)         ±(0.5%n+1)           Operating         Temperature         ±0.6%C         —           Conditions         Humidity         < 80%RH	Range	Moisture	8~20%	7~30%	0~50%
Battery Indicator         Low Battery Indicator         Low Battery Indicator           Auto Power Off         —         J         J           Accuracy         Moisture         ±0.6%/±0.8%/±1%         ±(0.5%n+1)         ±(0.5%n+1)           Power Surply         ±0.8°C         —         —           Conditions         Humidity         < 80%RH		Temperature	-10~55°C	<del></del>	
Auto Power Off         —         √         √           Accuracy         Moisture         ±0.6%/±0.8%/±1%         ±(0.5%n+1)         ±(0.5%n+1)           Temperature         ±0.8°C         —         —           Operating         Temperature         0-50°C         0-50°C         0-50°C           Conditions         Humidity         < 80%RH	Reso	lution	0.1	0.1	0.1
Accuracy         Moisture         ±0.6%/±0.8%/±1%         ±(0.5%n+1)         ±(0.5%n+1)           Operating         Temperature         ±0.8°C         —         —           Operating         Temperature         0~50°C         0~50°C         0~50°C           Conditions         Humidity         < 80%RH	Battery	Indicator	Low Battery Indicator	Low Battery Indicator	Low Battery Indicator
Temperature	Auto Po	ower Off	<del></del>	√	√
Operating Conditions         Temperature Humidity         0-50°C         42.5 VAAA Size (UM-4) Battery         4x1.5V AAA Size (UM-4) Battery         115x66x66mm         150x6x66mm         150x6x66mm         150x6x66mm         150x6x66mm         150x6x66mm         150x6x66mm         150x6x65x80mm         150x6x65x80mm         150x6x65x80mm         150x6x65x80mm         150x6x65x80mm         150x6x84x25mm         150x6x80mm	Accuracy	Moisture	$\pm 0.6\% / \pm 0.8\% / \pm 1\%$	±(0.5%n+1)	±(0.5%n+1)
Conditions         Humidity         < 80%RH         < 90%RH         < 90%RH           Power Supply         4x1.5V AAA Size (UM-3) Battery         4x1.5V AAA Size (UM-4) Battery         4x1.5V AAA Size (UM-4) Battery           Dimensions         Main Unit         178x68x39mm         165x62x26mm         150x65x30mm           Long Rod Sensor         368x44x25mm         —         115x66x66mm           Length of Rod         250mm         250mm         —           Diameter of Rod         8mm         8mm         —           Distance Betwen 2 Rods         17mm         17mm         —           Short Pin Sensor         —         157x44x44mm         —           Length of Pin         —         0.7mm         —           Distance Betwen 2 Pins         —         0.7mm         —           Distance Between 2 Pins         —         0.7mm         —           Weight (Not Including Batteries)         420g         320g         520g           Standard         Main Unit         √         √         √           Accessories         Rod Sensor         √         √         —           Carrying Case         B01         B04         B04           Manual         √         ✓         <		Temperature	±0.8°C		
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           Long Rod Sensor         368x44x25mm         —         115x66x66mm           Long Rod Sensor         368x44x25mm         —         —           Length of Rod         8mm         8mm         —           Distance Betwen 2 Rods         17mm         17mm         —           Short Pin Sensor         —         157x44x44mm         —           Length of Pin         —         0.7mm         —           Distance Betwen 2 Pins         —         0.7mm         —           Distance Betwen 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         √         ✓         ✓         ✓ </td <td>Operating</td> <td>Temperature</td> <td>0~50°C</td> <td>0~50°C</td> <td>0~50°C</td>	Operating	Temperature	0~50°C	0~50°C	0~50°C
Dimensions         Main Unit         178x68x39mm         165x62x26mm         150x65x30mm           Long Rod Sensor         368x44x25mm         —         115x66x66mm           Long Rod Sensor         368x44x25mm         —         —           Length of Rod         250mm         250mm         —           Diameter of Rod         8mm         8mm         —           Distance Between 2 Rods         17mm         17mm         —           Short Pin Sensor         —         157x44x44mm         —           Length of Pin         —         0.7mm         —           Distance Between 2 Pins         —         0.7mm         —           Distance Between 2 Pins         —         3.5mm         —           Weight (Not Including Batteries)         420g         320g         520g           Standard         Main Unit         ✓         ✓         ✓           Accessories         Rod Sensor         ✓         ✓         ✓           Cup Sensor         —         J         J           Carrying Case         B01         B04         B04           Manual         J         J           Optional Accessories         —         USB Cable with Software	Conditions	Humidity	< 80%RH	< 90%RH	< 90%RH
Cup Sensor         —         115x66x666mm           Long Rod Sensor         368x44x25mm         —           Length of Rod         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         —         J         √         —         ✓         ✓           Carrying Case         B01         B04         B04         B04         ✓	Power Supply		4x1.5V AA Size (UM-3) Battery	4x1.5V AAA Size (UM-4) Battery	4x1.5V AAA Size (UM-4) Battery
Long Rod Sensor         368x44x25mm         368x44x25mm         —           Length of Rod         250mm         —         —           Diameter of Rod         8mm         8mm         —           Distance Between 2 Rods         17mm         17mm         —           Short Pin Sensor         —         157x44x44mm         —           Length of Pin         —         0.7mm         —           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         B04           Manual         ✓         ✓         ✓         ✓         ✓           Optional Accessories         —         USB Cable with Software         Bluetooth Adapter with Software         Bluetooth Adapter with Software	Dimensions	Main Unit	178x68x39mm	165x62x26mm	150x65x30mm
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         Bluetooth Adapter with Software		Cup Sensor			115x66x66mm
Diameter of Rod         8mm         8mm         —           Distance Between 2 Rods         17mm         17mm         —           Short Pin Sensor         —         157x44x44mm         —           Length of Pin         —         10mm         —           Distance Between 2 Pins         —         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         B04           Optional Accessories         —         USB Cable with Software         USB Cable with Software         Bluetooth Adapter with Software	Long Ro	d Sensor	368x44x25mm	368x44x25mm	
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         Bluetooth Adapter with Software			250mm	250mm	
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	Diameter of Rod		8mm	8mm	<del></del>
Length of Pin         —         10mm         —           Diameter of Pin         —         0.7mm         —           Distance Between 2 Pins         —         3.5mm         —           Weight (Not Intuding Batteries)         420g         320g         520g           Standard         Main Unit         ✓         ✓         ✓           Accessories         Rod Sensor         ✓         ✓         —           Cup Sensor         —         ✓         ✓         —           Carrying Case         B01         B04         B04         B04           Manual         ✓         ✓         ✓         ✓         ✓           Optional Accessories         —         USB Cable with Software         Bluetooth Adapter with Software         Bluetooth Adapter with Software	Distance Between 2 Rods		17mm	17mm	
Diameter of Pin       —       0.7mm       —         Distance Between 2 Pins       —       3.5mm       —         Weight (Not Intuding 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		<del></del>	157x44x44mm	
Distance Between 2 Pins       3.5mm       —         Weight (Not Including Batteries)       420g       320g       520g         Standard       Main Unit       √       √       √         Accessories       Rod Sensor       √       √       —         Cup Sensor       —       J       ✓         Carrying Case       B01       B04       B04         Manual       √       √       √         Optional Accessories       —       USB Cable with Software       USB Cable with Software         Bluetooth Adapter with Software       Bluetooth Adapter with Software	Length of Pin		<del></del>	10mm	
Weight (Not Including Batteries)  Standard Main Unit  Accessories Rod Sensor  Cup Sensor  Cup Sensor  Carrying Case  Manual  Manual  V  USB Cable with Software  Bluetooth Adapter with Software  Bluetooth Adapter with Software	Diameter of Pin			0.7mm	
Standard Main Unit	Distance Between 2 Pins		<del></del>	3.5mm	
Accessories Rod Sensor	Weight (Not Including Batteries)		420g	320g	520g
Cup Sensor — — — — — — — — — — — — — — — — — — —	Standard	Main Unit	√	√	√
Carrying Case B01 B04 B04  Manual   Optional Accessories   USB Cable with Software  Bluetooth Adapter with Software  Bluetooth Adapter with Software	Accessories	Rod Sensor	√	√	
Manual     √     √       Optional Accessories     —     USB Cable with Software       USB Cable with Software     USB Cable with Software       Bluetooth Adapter with Software     Bluetooth Adapter with Software		Cup Sensor			√
Manual     √     √       Optional Accessories     —     USB Cable with Software       USB Cable with Software     USB Cable with Software       Bluetooth Adapter with Software     Bluetooth Adapter with Software		Carrying Case	B01	B04	B04
Optional Accessories — USB Cable with Software USB Cable with Software  Bluetooth Adapter with Software Bluetooth Adapter with Software			√	√	√
	Optional Acce			USB Cable with Software	USB Cable with Software
	-			Bluetooth Adapter with Software	Bluetooth Adapter with Software
				_	

Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice

# For pricing or any further information, please contact Omni Instruments Ltd.



Suite E, East Kingsway Business Centre, Mid Craigie Trading Estate, Mid Craigie Road, Dundee, DD4 7RH, UK



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

Code	Grain	Range
Cd01	Wheet / Rye (Whole)	7~31
Cd02	Wheet / 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 (Progreta) (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	Brassicas/Brussels Sprout(Whole/Ground)	5~15
Cd36	Beans/Tic/Winter(Ground)	7~25
Cd00	Fibre Material, for example Tea	

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