

Moisture

One of the most regular causes of a coating's failure is moisture. It is not sufficient to simply ensure that the surface is dry as often the surface of the substrate is the driest point - due to evaporation.

Many substrates in industry today that are coated are porous and can absorb moisture. It is necessary to measure the moisture content within the substrate to reduce the possibility of subsequent coating failure.

When powder coating substrates which have a high moisture content - such as wood or MDF, steam will generate during the curing process damaging the new coating. Other substrates, which may have a high moisture content include concrete, fibreboard, plasterboard, gypsum and brick.

Moisture Meter AM-118PS/AM-128PS/AM-128P/AM-128S/AM-128G/AM-128GC/AM-128SOIL/AM-128CIG/AM-128PP

Amittari Moisture Meter, is with 2 types of measuring principles - Pin Type and Search Type. This product enables building surveyors and other practitioners to measure moisture levels of building elements such as walls, floors and other building material simply by switching between the two different modes of operation. In this way, a detailed understanding of the moisture condition of the property can be obtained.

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 problems and monitor changes in condition precisely and reliably.

Moisture Meter AM-118PS

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- 10 Codes for Pin Type
- 20 Codes for Search Type



Moisture Meter AM-128PS

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- 10 Codes for Pin Type
- 20 Codes for Search Type
- 240 groups of readings memory, realizing statistical functions by calculating the Mean Value, Max. Value, and Min. Value



Moisture Meter (Pin Type) AM-128P

The Amittari Pin Type Moisture Meter AM-128P, adopts the Pin Type measurement. By measuring the conductivity between the two pins, the moisture of the measured object can be measured.

- 10 Codes for Pin Type
- 240 groups of readings memory, realizing statistical functions by calculating the Mean Value, Max. Value, and Min. Value



Moisture Meter (Search Type) AM-128S

The Amittari Search Type Moisture Meter AM-128S, adopts the inductive and non-destructive testing principle. The dielectric constant of the measured object is measured by high-frequency electromagnetic wave, so that the moisture of the measured object is measured

- 20 Codes for Search Type
- 240 groups of readings memory, realizing statistical functions by calculating the Mean Value, Max. Value, and Min. Value



AM-128S

Features

Model	AM-118PS	AM-128PS	AM-128P	AM-128S
Pin Type Measurement	•	•	•	-
Search Type Measurement	•	•	-	•
10 Codes for Pin Mode	•	•	•	-
20 Codes for Search Mode	•	•	-	•
Backlight Display	•	•	•	•
Single/Continuous Measuring	-	•	•	•
Readings Memory	-	240 Groups	240 Groups	240 Groups
Readings Review	-	•	•	•
Buzzer Sound Reminder	•	•	•	•
Manual/Auto Power Off	•	•	•	•
Low Battery Indicator	•	•	•	•
Computer Connection	-	•	•	•

Specifications

Model	AM-118PS	AM-128PS	AM-128P	AM-128S	
Range	Pin Type	0~80%	0~80%	0~80%	
	Search Type	0~70%	0~70%	-	
Resolution	0.1				
Accuracy	$\pm(0.5\%n+1)$				
Display	LCD				
Colour Coded LED Indication	Green LED represents a safe, air-dry state				
	Yellow LED represents a borderline state				
	Red LED represents a damp state				
Operation Temperature	0~50°C (32~122°F)				
Operation Humidity	< 90%				
Power Supply	4 x 1.5V AAA Um-4 Battery				
Size	Main Unit	182x62x26mm (7.2x2.4x1.0")	140x70x31mm (5.5x2.8x1.2")	140x70x31mm (5.5x2.8x1.2")	140x70x31mm (5.5x2.8x1.2")
	Sensor	-	192x44x44mm	192x44x44mm	-
	Pin Length	10.5mm	25mm	25mm	-
	Pin Diameter	1.9mm	2.3mm	2.3mm	-
	Pin Distance	25mm	18mm	18mm	-
	Search Sensor Contact Area	44x16mm	40x16mm	-	40x16mm
Weight (without batteries)	130g (4.59oz)	175g (6.17oz)	175g (6.17oz)	130g (4.59oz)	

Specifications

Model	AM-118PS	AM-128PS	AM-128P	AM-128S
Standard Accessories	Main Unit			
	Search Cap	Sensor	Sensor	-
	Calibration Box			
	Carrying Case			
Operation Manual				
Optional Accessories	USB Cable & Software (See Page 6)			
	Bluetooth Adapter & Software (See Page 6)			

Code Table For Pin Mode

Code	Materials
Cd00	Abies grandis, Acer macrophyllum, Maple, Acer saccharum, Pine(scots), yellow Pine, Dalbergia latifolia, Dipterocarpus zeylanicus, Eucalyptus microcorys, Fraxinus excelsior, Cupressus spp, Pinus contorta, Pterygota bequaertii, Quercus robur, Pinus sylvestris, Balsa, Boxwood (maracaibo), red Gum(American), Gum spotted, Gurjun, Birch, Cypress (African) Karri, Oak(European), Oak(Japanese), black Poplar, Redwood(Baltic European), Rosewood (Indian), Pine (lodgepole), Tallowwood, Walnut (American), Kapur
Cd01	Araucaria bidwilli, Eucalyptus crebra, Eucalyptus saligna, Flindersia brayleyana, Fraxinus Americana, Intsia bijuga, Podocarpus dactyloides, Sequoia sempervirens, Pinus pinaster, Gum(southern), Mahogany (west Indian), Douglas fir, Maple (queensland), red (light or dark) Meranti, white Meranti, Redwood(Californian), Walnut (new guinea), white Pine (new Zealand), Araucaria angustifolia
Cd02	Distemonanthus benthamianus, Jarrah, Endiandra palmerstonii, Erythrophleum spp, Abies alba, Fagus sylvatica, Grevillea robusta, Juglans regia, Larix deciduas, Larix occidentalis, Podocarpus spicatus, Picea abies, Pinus caribaea, Pinus nigra, Pinus palustris, Pinus ponderosa, Pinus radiata, Taxus baccata, Thuja plicata, Tsuga heterophylla, red Cedar (western), Chestnut, Greenheart, Hemlock (western), Larch (European), Larch (Japanese), Queensland walnut, red Seraya, Spruce, Silky oak(African), Silky oak(Australian),Pine(Corsican),Pine,radiata, Walnut (European), Walnut (queensland), Whitewood, Yew, Pine (ponderosa), Stringybark, Oak (tasmanese)
Cd03	Khaya senegalensis, Podocarpus totara, Quercus cerris, Ulmus American, Ulmus procera, Ulmus thomasi, Afzelia, Kauri(new Zealand), Lime, Elm(English), white Elm, Matai, Oak(Turkey), Pyinkado
Cd04	Acer pseudoplatanus, Carya glabra, Sycamore, Cassipourea elliotii, Dipterocarpus (keruing), Teak, Cordia alliodore, Larix occidentalis, Pterocarpus soyauxii, Hickory, Padauk (African)
Cd05	Afromosia elata, Diospyros virginiana, Gonystylus macrophyllum, Pterocarpus indicus, Afromosia, Amboyna, Basswood, Coachwood, Persimmon
Cd06	Calophyllum brasil iense, Guarea cedrata, white Guarea
Cd07	Abies procera, Agathis robusta, Betula pendula, Croton megalocarpus, Prunus avium, Agba, Birch(European), Cedar (west Indian), black Guarea, Kauri (queensland),Walnut (African), Cherry (european), Utile
Cd08	Chipboard, Paper
Cd09	Building, Wall, Concrete

Code Table for Search Mode

Due to the influence of uncertain factors such as environment, temperature, and the different components of the object, this code is only for reference in the actual measurement. It is better to use the drying method to determine.

Density Km/m ³	Code	Material (Only for reference)
200	1	
220	2	
240	3	Foam
320	4	Soft wood
400	5	Felt
440	6	Peat
480	7	Charcoal
520	8	Coke
560	9	White lime
600	10	Veneer
600	10	Timber, Chipboard
800	11	Leather, Slag, Kerosene, Alcohol
800	11	Polyethylene
1000	12	Soft coal, Bamboo, Paraffin
1000	12	ABS
1200	13	Clunch, Organic glass
1200	13	Asphaltum, lime
1400	14	Bakelite, fiberboard
1600	15	Rubber
1600	15	Stone, Sand (dry)
1800	16	Clayey brick
1800	16	Asbestine board
2000	17	Vitriol (87%)
2000	17	Sand (wet)
2200	18	Bricklaying, Firebrick
2200	18	Quartz glass
2500	19	Concrete, Asbestos, plaster
2500	19	China, Glass
3000	20	Magnetite, Granite, Marble

Grain Moisture Meter (Long Pin Type) AM-128G

The Amittari Grain Moisture Meter (Long Pin Type) is a powerful instrument which can measure up to 36 kinds of grain. It is used for fast and accurate measurement of moisture in the process of allotment, acquisition, storage, machining of packed grains, feedstuff, powder.

- Pin type measurement with 36 kinds of material code
- 240 groups of readings memory, realizing statistical functions by calculating the Mean Value, Max. Value, and Min. Value



Grain Moisture Meter (Cup Type) AM-128GC

The Amittari Grain Moisture Meter (Cup Type) is a powerful instrument which can measure up to 36 kinds of grain. It is used for fast and accurate measurement of moisture in the process of allotment, acquisition, storage, machining of packed grains, feedstuff, powder.

- Cup type measurement with 36 kinds of material code
- 240 groups of readings memory, realizing statistical functions by calculating the Mean Value, Max. Value, and Min. Value
- Adopt the cup type measurement to reduce personal error



Soil Moisture Meter AM-128SOIL

Soil moisture is an important component of soil, which plays an important role in the growth of crops. The Amittari Soil Moisture Meter is specially used to measure the moisture of soil.

- The instrument adopts pin type measurement. By measuring the electrical conductivity between the two pins to measure the moisture content of measured object
- 240 groups of readings memory, realizing statistical functions by calculating the Mean Value, Max. Value, and Min. Value



Cigarette Moisture Meter AM-128CIG

The Amittari Cigarette Moisture Meter, is dedicated to the cigarette moisture testing. Sensor pins are suitable for cigarettes of different size without adjustments of the pin distance, convenient for users.

- The instrument adopts pin type measurement. By measuring the electrical conductivity between the two pins to measure the moisture content
- 240 groups of readings memory, realizing statistical functions by calculating the Mean Value, Max. Value, and Min. Value
- The user can calibrate the meter according to the specific cigarette, to improve the accuracy



Paper Moisture Meter AM-128PP

The Amittari Paper Moisture Meter, is mainly used for moisture measurement of paper. It can also be used for moisture measurement of fibrous substances.

- The instrument uses contact measurement, the moisture is measured by measuring the electrical conductivity between two electrodes
- 240 groups of readings memory, realizing statistical functions by calculating the Mean Value, Max. Value, and Min. Value



Features

Model	AM-128G	AM-128GC	AM-128SOIL	AM-128CIG	AM-128PP
Pin Type Measurement	●	-	●	●	-
Search Type Measurement	-	●	-	-	-
Electrodes Measurement	-	-	-	-	●
Codes Amount	36 Codes	36 Codes	20 Codes	1 Codes	10 Codes
Multi-Point Calibration	-	-	-	●	-
Backlight Display	●	●	●	●	●
Single/Continuous Measuring	●	●	●	●	●
Readings Memory	240 Groups	240 Groups	240 Groups	120 Groups	240 Groups
Readings Review	●	●	●	●	●
Buzzer Sound Reminder	●	●	●	●	●
Manual/Auto Power Off	●	●	●	●	●
Low Battery Indicator	●	●	●	●	●
Computer Connection	●	●	●	●	●

Specifications

Model	AM-128G	AM-128GC	AM-128SOIL	AM-128CIG	AM-128PP	
Range	7-30%	0-50%	0-80%	0-80%	0-80%	
Resolution	0.1					
Accuracy	±(0.5%n+1)	±(0.5%n+1)	±(0.5%n+1)	±(0.5%n+0.2)	±(0.5%n+1)	
Display	LCD					
Colour Coded LED Indication	Green LED represents a safe, air-dry state					
	Yellow LED represents a borderline state					
	Red LED represents a damp state					
Operation Temperature	0~50°C (32~122°F)					
Operation Humidity	< 90%					
Power Supply	4 x 1.5V AAA Um-4 Battery					
Size	Main Unit	140x70x31mm (5.5x2.8x1.2")				
	Sensor	Long Rod Sensor: 368x44x44mm (14.5x1.7x1.7")	Sensor Cup: 115x66x66mm (4.5x2.6x2.6")	Pin Probe: 320x44x44mm (12.6x1.7x1.7")	Pin Probe: 180x44x44mm (7.1x1.7x1.7")	Electrode Probe: 265x44x44mm (10.4x1.7x1.7")
		Small Pin Sensor: 157x44x44mm (6.2x1.7x1.7")	-	-	-	-
	Electrode Length	Long Rod: 290mm	-	Pin: 150mm	Pin: 33mm	Electrode: 77mm
		Small Pin: 10mm	-	-	-	-
	Electrode Cross Section Size	Rod Diameter 6mm	-	Pin Diameter: 3mm	Pin Diameter: 0.7mm	Cross Section Size of Electrode: 14x1mm
Pin Diameter 0.7mm		-	-	-	-	
Electrode Distance	Long Rod: 14mm	-	Pin: 18mm	Pin: 3.5mm	Electrodes: 4mm	
	Small Pin: 3.5mm	-	-	-	-	
Weight (without batteries)	420g (14.82oz)	520g (18.34oz)	280g (9.88oz)	220g (7.76oz)	295g (10.41oz)	
Standard Accessories	Main Unit					
	Long Rod Sensor	Sensor Cup	Pin Probe	Pin Probe	Electrode Probe	
	Carrying Case					
Optional Accessories	Operation Manual					
	Small Pin Sensor	-	-	-	-	
	USB Cable & Software (See Page 6)					
Bluetooth Adapter & Software (See Page 6)						

Grain Codes & Measurement Range of AM-128G / AM-128GC

Code	Grain	Range	Code	Grain	Range	Code	Grain	Range
Cd01	Wheet / Rye (Whole)	7-31%	Cd13	Coffee (Whole)	7-31%	Cd25	Flax (Whole)	7-29%
Cd02	Wheet / Rye (Ground)	7-29%	Cd14	Coffee (Ground)	7-26%	Cd26	Peas (Progreta) (Ground)	7-25%
Cd03	Paddy (Whole)	7-29%	Cd15	Coffee Green (Ground)	7-27%	Cd27	Peas (Ground)	7-27%
Cd04	Paddy (Ground)	7-26%	Cd16	Cocoa Beans (Whole)	4-13%	Cd28	Ground Nuts Hulled (Whole)	7-26%
Cd05	Rice (Milled)	7-29%	Cd17	Linseed (Whole)	6-21%	Cd29	Grass Seed/Rye Grass (Whole)	6-28%
Cd06	Semolia	7-25%	Cd18	Lentils (Ground / Whole)	7-21%	Cd30	Grass Seed/Cocksfoot (Whole)	5-22%
Cd07	Maize / Corn (Whole)	7-27%	Cd19	Oilseed Rape (Ground)	5-26%	Cd31	Flour / Soft Wheat	7-34%
Cd08	Maize / Corn (Ground)	7-26%	Cd20	Mustard Seed (Whole)	7-21%	Cd32	Clover / White Seed (Whole)	7-29%
Cd09	Soya Beans (Whole)	6-28%	Cd21	Sorghum / Milo (Whole)	7-31%	Cd33	Clover/Red lucerne Sees(Whole)	7-31%
Cd10	Soya Beans (Ground)	5-22%	Cd22	Sorghum / Milo (Ground)	7-29%	Cd34	Buckwheat (Ground)	7-26%
Cd11	Barley Oats (Whole)	7-34%	Cd23	Sunflower Seed (Whole)	7-29%	Cd35	Brassicac/Brussels Sprout (Whole/Ground)	7-27%
Cd12	Barley Oats (Ground)	7-29%	Cd24	Sugarbeet Seed (Whole)	7-26%	Cd36	Beans / Tic / Winter (Ground)	4-13%

Data Statistics Software

This powerful software provides the user with the means to analyze their test results. Through continuous inspection data statistic will help you to reduce re-work and scrap levels - increasing your profits and quality. With the computers and printers, the following functions can be realized:

- Data Management (Excel file output)
- Charting
- Printing



Data Transmission Methods

There are two ways to transmission measurement data:

- USB Data Cable wired output
- Bluetooth Adapter wireless output

By these two ways above, data transmission from the gauge to computer can be realized.

Among them, there are two optional Bluetooth adapters: 10 meter Bluetooth adapter and 100 meter Bluetooth adapter.

