# Moisture Meter PCE-MMK 1 User Manual



PCE Americas Inc.
711 Commerce Way
Suite 8
Jupiter
FL-33458
USA
From outside US: +1
Tel: (561) 320-9162
Fax: (561) 320-9176
info@pce-americas.com

Units 12/13
Southpoint Business Park
Ensign way
Hampshire / Southampton
United Kingdom, S031 4RF
From outside UK: +44
Tel: (0) 2380 98703 0
Fax: (0) 2380 98703 0
info@pce-instruments.com

w.pce-instruments.com/english www.pce-instruments.com



Please read this manual before switching the unit on. Important safety information inside.



# Moisture Meter User Manual

Contents	Page		
1. Function	4		
2. Description	4		
3. Power On/OFF	5		
4. Measuring ambient Temperature & Humidity	5		
5. Moisture Analyzer Modes Menu	5		
6. Setting Menu	9		
7. Function Check	11		
8. Replace Battery	11		
9. Technical Data	12		

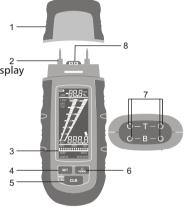
#### 1. Function

Used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar)..in addition, It measures the ambient Temperature & Humidity. The displayed value is material moisture in % with respect to dry mass. Example: 100% material moisture for 1 kg of wet wood=500g water.

# 2. Description

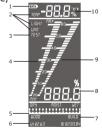
#### 2.1 Overview

- 1-Protective cap
- 2-Test electrode
- 3-Digital and analog LCD display
- 4-SET switch
- 5-CLR switch
- 6-Power On & Mode switch
- 7-Self-Test point
- 8-Ambient Temperature
  - & Humidity Sensor



## 2.2 Display

- 1-Low battery charge
- 2-Set menu indicator:"LIGHT" for setting backlight mode, "TEMP" for setting compensate temperature
- "UNIT" for setting ambient temperature unit.
- 3-TEST measure mode
- 4-Bar-graph display of measured MIN/Max values
- 5-DRY/MOIST/WET indicator (programmable)
- 6-Wood group (W1,W2,W3)
- 7-Building materials (B1,B2,B3,B4)
- 8-Digital display of materials moist
- 9-Bar-graph display of materials moist value
- 10-Digital Display of ambient Temperature
- & Huimidity



## 3. Power On/OFF

Press the "MODE" for about 2s, the device will power on, when the device is actived, the display will show the ambient temperature for 2 seconds. Press the "MODE" for about 2s, the device will power off. the device will auto power off after 3 minutes.

Press about 2s







(1)Power on

(2)Init Display

(3)start measuring

# 4. Measuring ambient Temperature & Humidity

The device measures the ambient temperature & huimidity while measuring moisture, and the ambient temperature is used as temperature compensation to increase the moisture accuracy. Press the "Set" key for about 2s, the display will switch between Temperature and huimidity. And you can change the temperature unit between °C and °F in setting menu, about the detail please refer to chapter 6.4.









## 5. Moisture Measure Modes Menu

There are four measure modes, you can switch among them by press "MODE" key.











Wood mode:W1.W2.W3

Building mode:B1.B2.B3.B4

Self-Test Mode

## 5.1 Select wood group in wood mode (A,B,C)

There are three wood groups selectable, you can switch among them by press "SET" key. Just which wood types are grouped under A, B and C can be found in the table 1.



Abachi Agda mahogany Afrormosia Abachi Maple Pine Rubber tree Abura Alder Cherry wood Imbuia Pear wood Patagonian cypress Kosipo Kokrodua Black Afara Purpleheart Larch Niove Bidinkala Parana pine Andiroba Limba Tola-real, red Beech Aspen Mahogancy Cork Balsa Cherry mahogancy Melamine partide board Bebony Basralocus Meleze Phenolic resin partide board Dak, red Tree Health Poplar(all) Oak, white Ebiara Plum wood Ash Birch Pine Maritime pine Ash-American Juniper Elm Ash-Japanese Beech-European Hombean Elm Hickory-swap Ilombeam-white English oak Hickory-swap Ilomba Aiele Tola Ilomba Alele Tola Ilomba Mall-leaved lime Small-leaved lime Ash Swiss pine Rosewood Ash Walnut Small-leaved lime Ook Unda Walnut Small-leaved lime Small-leaved lime Small-leaved lime Ook Unda Walnut Small-leaved lime Small-leaved lime Ook Unda Walnut Small-leaved lime Small-leaved lime Ook Unda Walnut Ook Ook Unda Walnut Ook	Wood							
Abachi Māple Pīne Rubber tree Abura Alder Cherry wood Imbuia Alder Cherry wood Imbuia Alder Cherry wood Imbuia Alder Cherry wood Imbuia Black Afara Purpleheart Larch Niove Bidinkala Arana pine Andiroba Limba Tola-real, red Beech Aspen Mahogancy Cork Beech Aspen Mahogancy Cork Dabema Balsa Cherry mahogancy Melamine partide board Bebony Basralocus Meleze Phenolic resin partide board Oak, red Tree Health Poplar(all) Oak, white Ebiara Plum wood Ash Birch Pine Yellowheart Logwood Red sandalwood Ash-American Juniper Elm Ash-Japanese hombean Hichory-silver poplar Hombeam-white English oak Hickory-swap Campeachy Durmast oak Ilomba Aiele Tola-branca Ilroko Douka Walnut Small-leaved lime Douglas fir Westem red Small-leaved lime Douglas fir Westem red Small-leaved lime American Mockemut hickory Niangon English, dumast White birch Niove Emien White poplar Rosewood Yellow birch Common aspen Common beech Southem yellow pine Damson wood Red oak Hombeam Cypress, red Feek Tola-branca Wood fibre insulating board White oak Izombe Wood fibre insulating board Wood fibre insulating board White oak Izombe Karri Chestnut-sweet, red			В	С				
Abura Alder Cherry wood Imbuia Pear wood Patagonian cypress Kosipo Kokrodua Black Afara Purpleheart Larch Niove Bidinkala Tola-real, red Napen Mahogancy Cork Dabema Balsa Cherry mahogancy Cork Dabema Balsa Cherry mahogancy Melamine partide board Phenolic resin partide board Ph			mahogany					
Pear wood Patagonian cypress Kosipo Kokrodua Black Afara Purpleheart Larch Niove Bidinkala Parana pine Andiroba Limba Tola-real, red Dabema Balsa Cherry mahogancy Cork Dabema Balsa Cherry mahogancy Melamine particle board Meloro Dak, white Ebiara Plum wood Ash Birch Pine Poplar(all) Phenolic resin particle board Poplar(all) Phenolic resin particle board Paper Phenolic r	Abachi		Pine	Rubber tree				
Pear wood   Patagonian cypress   Kosipo   Kokrodua   Black Afara   Purpleheart   Larch   Niove Bidiinkala   Parana pine   Andiroba   Limba   Tola-real,red   Beech   Aspen   Mahogancy   Cork   Dabema   Balsa   Cherry mahogancy   Melamine partide board   Dabema   Balsa   Cherry mahogancy   Phenolic resin partide board   Dak, red   Tree Health   Poplar(all)   Oak, white   Ebiara   Plum wood   Ash   Birch   Pine   Pine   Pine   Pilow   Phenolic resin partide board   Oak, white   Logwood   Red sandalwood   Ash-American   Juniper   Elm   Ash-Japanese   Bech-European   Maritime pine   Inombean   Hombeam-white   Hickory-silver poplar   Hombeam-white   English oak   Ipe   Kapok   Tola-branca   Ipe   Kapok   Tola-branca   Ipe   Kapok   Tola-branca   Ipe   Kapok   Tola-branca   Imal-leaved lime   Douglas fir   Westem red   Small-leaved   Ime-American   Mockemut hickory   Oak-holm   White maple   Niangon   English, dumast   White birch   Niove   Emien   White beech   Niowe   Emien   White beech   Okoume   Alder-red, black   White poplar   Rosewood   Southem yellow pine   Damson wood   Red oak   Hombeam   Nickory-soplar   H	Abura		Cherry wood	Imbuia				
Parana pine Andiroba Limba Tola-real,red Beech Aspen Mahogancy Cork Mahogancy Melamine partide board Meloze Phenolic resin partide board Plum wood Ash-Merican Plum wood Red sandalwood Pine Plum Wood Ash-American Juniper Elm Ash-Japanese Bech-European Maritime pine hombean Hichory-silver poplar Hombeam-white English oak Plum wood Ash-Beech-European Maritime pine hombean Plickory-swap Campeachy Durmast oak Dournast oak Dournast oak Meloze Tola Dournast oak Meloze Tola-branca Douglas fir Westem red Mockemut hickory Oak Nolm White maple Mockemut hickory Oak-holm White beech Mokume Alder-red, black White beech Mokume Alder-red, black White beech Mokume Alder-red, black White board Mokemat Mokem	Pear wood	Patagonian cypress						
Beech Aspen Mahogancy Cork Dabema Balsa Cherry mahogancy Melamine partide board Dak, red Tree Health Poplar(all) Oak, white Ebiara Plum wood Ash Birch Pine Yellowheart Logwood Red sandalwood Ash-American Juniper Elm Ash-Japanese Beech-European Maritime pine Hickory-silver poplar Hombeam-white English oak Hickory-swap Campeachy Durmast oak Ilomba Aiele Tola Ippe Kapok Tola-branca Iroko Douka Walnut Small-leaved lime Small-leaved lime Small-leaved lime Small-leaved Ime Miney Oak-holm White maple Niangon English, dumast White birch Niove Emien White beech Okoume Alder-red, black White poplar Rosewood Ash Southern yellow pine Rosewood Yellow birch Common aspen Common beech Rod Oak Izombe Rod Oak Izombe Rod Oak Izombe Rod Oak Hombeam Cypress, red Fibre board Wood fibre insulating board Kauramin partide board Cypress-C.Lusit Jarrah Paper Chestnut-sweet, red Chestnut-sweet, red  Melamine partide board Meleze Phenolic resin partide board Melamine partide board Meleze Phenolic resin partide board Melamine partide board Melamine partide board Melamine partide board Melamine partide board Meleze Phenolic resin partide board Melamine partide board Melamine partide board Melamine partide board Melamine partide board Meleze Phenolic resin partide board Melamine partide board Melamine partide board Melamine partide board Melamine partide board Meleze Phenolic resin partide board Melamine partide board Melamine partide board Melamine partide board Melamine partide board Meleze Melamine partide board Melamine Phenolic resin partide board Melamine partide	Black Afara		Larch	Niove Bidinkala				
Dabema Balsa Cherry ma'nogancy Melamine partide board Ebony Basralocus Meleze Phenolic resin partide board Oak, red Tree Health Poplar(all) Phenolic resin partide board Oak, red Tree Health Poplar(all) Phenolic resin partide board Oak, white Ebiara Plum wood Ash Birch Pine Plum wood Ash-American Juniper Elm Ash-Japanese Bech-European Maritime pine hombean Hickory-swap Ilomba Aiele Tola Imper Kapok Tola-branca Iroko Douka Walnut Small-leaved Ilime American Oak Cedar Ilime-American Oak Cedar Ilime-American Wockemut hickory Oak-holm White maple Niangon English, dumast White birch Niove Emien White beech Okoume Alder-red, black White boplar Rosewood Yellow birch Common beech Southem yellow pine Damson wood Hed Red Oak Izombe Wood fibre insulating board Wolfier Damson Wood Fibre D	Parana pine		Limba	Tola-real,red				
Berny Basralocus Meleze Phenolic resin partide board Oak, red 1ree Health Poplar (all) Oak, white Ebiara Plum wood Ash Birch Pine Yellowheart Logwood Red Sah-American Juniper Elm Maritime pine hombean Hichory-silver poplar Hombeam Campachy Durmast oak Ilmen Joughas fir Westem red Small-leaved lime Douglas fir Westem red Small-leaved lime American Ash-Andreican Ash-American Mockemut hickory Mockemut hickory Small-leaved Nime Douglas fir Westem red Small-leaved Nime Douglas fir Westem red Small-leaved Nime American Mockemut hickory Niangon English, dumast White birch Niove Emien White poplar Rosewood Ash Swiss pine Rio rosewood Yellow birch Common beech Red oak Hombeam Cypress, red Teak Hickory-silver poplar fibre board Wood fibre insulating board White oak Izombe Wood fibre insulating board Working Agent Paper Roseword Elm Insulating board More Cedar Guanandi Kauramin partide board Elm Insulating board Letting Textiles Chestnut-sweet, red	Beech		Mahogancy	Cork				
Oak,red	Dabema		Cherry mahogancy	Melamine partide board				
Oak, white   Biran   Birch   Pine   P			Meleze	Phenolic resin partide board				
Ash Birch Pine Yellowheart Logwood Red sandalwood Ash-American Juniper Elm Ash-Japanese Beech-European Maritime pine hombean Hombeam-white English oak Hickory-swap Campeachy Durmast oak Ilomba Aiele Tola Ipe Kapok Tola-branca Iroko Douka Walnut Small-leaved lime Oak Ime-American Mockemut hickory Niangon English, dumast White birch Niove Emien White beech Okoume Alder-red, black White poplar Rosewood Ash Swiss pine Rio rosewood Yellow birch Common beech Red oak Hombeam Cypress, red Teak Hickory-silver poplar Willow hickory-poplar Wood fibre insulating board White oak Izombe Warria Warria Warria Warria Warria Warria Warria Warria Warria Wood fibre insulating board Worptes-C-Lusti Jarrah Paper Chestnut-sweet, red  Martitme pine Martitme pine Martitme pine Moak Walnut Walnut Walnut Walnut Walnut Wastem red Walnut Wastem red Walnut Swarria Walnut Wastem red Walnut Swarria Walnut Swar	Oak,red	Tree Health	Poplar(all)					
Yellowheart Logwood Red sandalwood Ash-American Juniper Elm Elm Ash-Japanese Beech-European Maritime pine hombean Hichory-silver poplar Homeam-white English oak Hickory-swap Campeachy Durmast oak Ilpe Kapok Tola-branca Ilpe Kapok Tola-branca Iroko Douka Walnut Small-leaved lime Oak Cedar Ilme-American Mockemut hickory Oak-holm White maple Niangon English, dumast White birch Niove Emien White beech Okoume Alder-red, black White poplar Rosewood Ash Swiss pine Roi orsoewood Yellow birch Common aspen Common beech Southem yellow pine Damson wood Red oak Ilmebaan Cypress, red Teak Hickory-silver poplar Fibre board Willow hickory-poplar Wood fibre insulating board White oak Izombe Marrah Paper Board Elm Textiles Karri Chestnut-sweet, red	Oak,white	Ebiara	Plum wood					
Ash-American Ash-Japanese Beeh-European Maritime pine hombean Hichory-silver poplar Hickory-swap Illomba Ilpe Iroko Jouka Jouk	Ash		Pine					
Ash-Japanese Beech-European Maritime pine hombean hombean Hickory-silver poplar Hombeam-white English oak Hickory-swap Campeachy Durmast oak Ilomba Aiele Tola Ipe Kapok Tola-branca Iroko Douka Walnut Small-leaved Ilime-American Mockemut hickory Oak-holm White birch Niove Emien White beech Okoume Alder-red, black White poplar Rosewood Ash Swiss pine Rod Oak Hombeam Cypress, red Field Rod Oak Ilombeam Cypress, red Field Rod	Yellowheart		Red sandalwood					
Inombean	Ash-American		Elm					
Hickory-silver poplar Hickory-swap Hickory-swap Hickory-swap Howap Aiele Jola Jpe Kapok Small-leaved lime Small-leaved lime-American Mockemut hickory Niangon Horkor Solve Hilleaved Joak Mockemut hickory Niangon Horkor Swap Horkor Swap Horkor Horko	Ash-Japanese	Beech-European	Maritime pine					
Hickory-swap Lorent Aiele Loren								
Hickory-swap Lorent Aiele Loren	Hichory-silver poplar	Hombeam-white	English oak					
Ilomba		Campeachy						
Iroko		Aiele	Tola					
Small-leaved lime   Douglas fir   Western red	lpe	Kapok	Tola-branca					
Small-leaved lime-American Mockemut hickory Oak-holm White maple Mockemut hickory Oak-holm White beech Mose Mose Mose Mose Mose Mose Mose Mose			Walnut					
lime-American Mockemut hickory Niangon English,dumast White birch Niove Emien White beech Okoume Alder-red,black White beech Niore Sewood Ash Swiss pine Rio rosewood Yellow birch Common aspen Common beech Southem yellow pine Red oak Hombeam Cypress,red Teak Hickory-silver poplar Fibre board Willow hickory-poplar Wood fibre hardboard White oak Izombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Valent Sewood Sewo	Small-leaved lime		Westem red					
Mockemut hickory Oak-holm White maple Niangon English,dumast White birch Niove Emien White beech Okoume Alder-red,black White poplar Rosewood Ash Swiss pine Rio rosewood Yellow birch Common aspen Common beech Southem yellow pineDamson wood Red oak Hombeam Cypress,red Flack Hickory-silver poplar Flow Willow hickory-poplar Wood fibre hisulating board Willow Niew Wood flow hardboard Cedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red	Small-leaved	Oak	Cedar					
Niangon English,dumast White birch Niove Emien White beech Okoume Alder-red,black White beech Now Alder-red,black White poplar Rosewood Ash Swiss pine Rio rosewood Yellow birch Common aspen Common beech Southem yellow pine Damson wood Red oak Hombeam Cypress,red Teak Hickory-silver poplar Fibre board Willow hickory-poplar Wood fibre insulating board White oak Izombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red								
Niangon English,dumast White birch Niove Emien White beech Okoume Alder-red,black White beech Now Alder-red,black White poplar Rosewood Ash Swiss pine Rio rosewood Yellow birch Common aspen Common beech Southem yellow pine Damson wood Red oak Hombeam Cypress,red Teak Hickory-silver poplar Fibre board Willow hickory-poplar Wood fibre insulating board White oak Izombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red	Mockemut hickory	Oak-holm	White maple					
Okoume Alder-red,black White poplar Rosewood Ash Swiss pine Rio rosewood Yellow birch Common aspen Common beech Southem yellow pine Damson wood Red oak Hombeam Cypress,red Teak Hickory-silver poplar Willow hickory-poplar Wood fibre insulating board White oak Izombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red		English,dumast						
Rosewood Ash Swiss pine Rio rosewood Yellow birch Common aspen Common beech Southem yellow pineDamson wood Red oak Hombeam Cypress,red Teak Hickory-silver poplar Fibre board Willow hickory-poplar Wood fibre insulating board White oak Izombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Cedar Guanandi Kauramin partide board Board Elm Textiles Karri Chestnut-sweet,red	Niove		White beech					
Rio rosewood Yellow birch Common aspen Common beech Southem yellow pineDamson wood Red oak Hombeam Cypress,red Teak Hickory-silver poplar Fibre board Willow hickory-poplar Wood fibre insulating board Willow Lizombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red	Okoume		White poplar					
Common beech Southem yellow pine Damson wood Red oak Hombeam Cypress,red Teak Hickory-silver poplar Fibre board Willow hickory-poplar Wood fibre insulating board White oak Izombe Wood fibre hindboard Gedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red			Swiss pine					
Common beech Southern yellow pine Damson wood Red oak Hombeam Cypress,red Teak Hickory-silver poplar Fibre board Willow hickory-poplar Wood fibre insulating board White oak Izombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red	Rio rosewood		Common aspen					
Teak Hickory-silver poplar Fibre board Willow hickory-poplar Wood fibre insulating board White oak Izombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red	Common beech	Southem yellow pine	Damson wood					
Willow hickory-poplar Wood fibre insulating board White oak Izombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red	Red oak		Cypress.red					
White oak Izombe Wood fibre hardboard Cedar Guanandi Kauramin partide board Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red	Teak		Fibre board					
Cedar         Guanandi         Kauramin partide board           Cypress-C.Lusit         Jarrah         Paper           Board         Elm         Textiles           Karri         Chestnut-sweet,red	Willow		Wood fibre insulating board					
Cypress-C.Lusit Jarrah Paper Board Elm Textiles Karri Chestnut-sweet,red	White oak		Wood fibre hardboard					
Cypress-C.Lusit         Jarrah         Paper           Board         Elm         Textiles           Karri         Chestnut-sweet,red         Image: Chestnut-sweet of the control			Kauramin partide board					
Board Elm Textiles Karri Chestnut-sweet,red	Cypress-C.Lusit							
Karri								
African								
		African						

## 5.2 Select wood group in building mode (01,02,03,04)

There are four building material groups selectable, you can switch among them by press "SET" key. Just which building material are grouped under 01,02,03 and 04 can be found in the table 2.

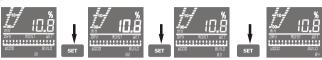


Table2 Building materials group

	Building materials		
1	02	03	04
Gypsum plaster	Aerated concrete	Screed	Concrete
05	06	07	08
anhydrite screed	ardurapid cement screed	B25 cement	B35 cement
09	10	11	12
Elastizel screed	gypsum screed	wood cement screed	lime mortar
13	14	15	16
DIN magnesuim	expanded polystyrene	softboard(wood)	cement bonded
oxychloride flooring		with bitumen	chipboard
17	18	19	
cement screed with	cement screed with	cement mortar	
bitumen additive	plastic additive		

#### 5.3 Wet/Moist/Dry indicator

In addition to the built-in material, a wet/moist/dry indicator is displayed for evaluating the moisture of other material (refer to table2). The moisture level is divided into DRY,MOIST,WET three grades, you can set the wet and dry threshold values in the setting menu, and then you evaluate the moisture level by the indicator.

The Dry/Wet index value of the indicator is programmable, about the detail please refer to chapter 6.2.







In Moist area

In Wet area

When measure build materials  $5\sim19$ , The recommended DRY threshod value is 70 and WET threshold value is 850, and you can evaluate the moisture level by the following table:

	All values in material moisture %										
	5	6	7	8	9	10	11	12	17	18	19
WET	>0.9	>1.2	>1.8	>2.3	>2.8	>1.2	v>10	>2.5	>3.6	>3.2	>2.8
MOIST	0.9~0.5	1.2~0.9	1.8~1.4	2.3~1.8	2.8~1.6	1.2~0.6	10~6.2	2.5~1.6	3.6~3.2	3.2~2.8	2.8~1.5
DRY	<0.5	<0.9	<1.4	<1.8	<1.6	<0.6	<6.2	<1.6	<3.2	<2.8	<1.5

#### 5.4 Self -Test mode

(1) Connect electrodes with "T" contacts to the protective cap.



Test approved

Test not approved

(2) Connect electrodes with "B" contacts to the protective cap







Test approved

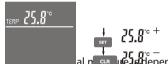
Test not approved

# 6. Setting Menu

Press keys simultaneity, it will enter parameter setting menu, there are five setting menus, you can switch among them by press MODE key.



## 6.1 Set Material temperature compensation



al n al material. The device automatically compensates different material temperatures in that it measures ambient temperature and use this measurement for its internal calculation.

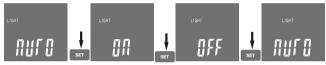
In addition, the measuring device also offer an option for setting the termperature manully to increase measuring accuracy. This value is not stored and must be set again each time the device is switched on.

## 6.2 Set Dry/Wet indicator



The dry/moist/wet indicator can be programmed to the already predefined values. This produces a new setting for the "Wet" and "Dry" threshold value. You can set the value from 0 to 1000.

## 6.3 Set LCD backlight mode



LED display illumination can be varied with 3 different settings: AUTO: Display illumination switches off during periods of inactivity and switches on again automaticlly for measurement again.

ON: Display illumination remains on permanently.

OFF: Display illumination remains off permanently

The setting is no stored and default setted as "AUTO" mode each time the device is switched on

### 6.4 Set Temperature units



The units of measure for ambient temperature and material compensation can be set to either °C or °F. The setting is stored and remains in effect until it is changed manually.

## 7. Function Check

Select the "Index Mode" as section 5.4 descripted.

"O-----O"

Connect electrodes with T contacts to the protective cap.

Reference display for index:  $300\pm15$ 

"O..... B.....O"

Connect electrodes with B contacts to the protective cap.

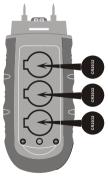
Reference display for index: 600±15 Function error: Send instrument for servicing.

# 8. Replace Battery

When the batteries become exhausted or drop below the operating voltage, the battery warning symbol " The will appear in the LCD display. The battery should be replaced.

Unscrew the 1 screws at the back of the instrument.

Remove the battery housing. Change battery. Observe polarization! Reconnect instrument.



#### Moisture Meter User Manual

#### 9. Technical Data

Measuring principle: Electrical resistance

Electrode length: 8 mm

Electrodes: Integrated, replaceable Measuring range: Wood: 1-75 %

Building material: 0.1-2.4 %

Ambient temperature: -40 to 70°C(-40 to 158°F)

Ambient Relative Humidity: 0 to 100% Accuracy: Wood: 0...30%/±1 % 30...60%/±2% 60...75%/±4%

Other materials:/±0.5%

Ambient temperature:  $-40^{\circ}$ C $\sim -10^{\circ}$ C and  $+40^{\circ}$ C $\sim +70^{\circ}$ C/ $\pm 2^{\circ}$ C

 $-10^{\circ}$ C $\sim +40^{\circ}$ C/ $\pm 1^{\circ}$ C

Ambient Relative Humidity: 0~20% and 80°C~ 100%/±5.0%

20~80%/±3.5%

Auto power OFF: After approx. 3 minutes Auto LCD backlight OFF: After approx 10 seconds

Battery: 3 × Cr 2032, replaceable

Housing material: Impact-proof plastic housing

Ambient temperature: 0 - 40°C

Ambient Relative humidity: 0-85 %RH

Dimensions: 139×47×25 mm Weight: approximately 100g

Warranty: 1 year