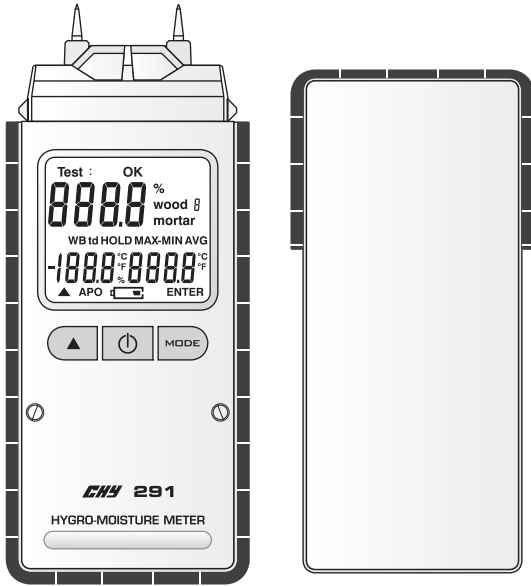


# HYGRO-MOISTURE METER

## MODEL: 291



## FEATURES

- Measure % moisture of wood & building materials.
- Conductivity measurement on electrical.
- Settable measuring ranges for different materials.
- %RH humidity measuring, Dew point and wet bulb.
- MAX/MIN/AVG and HOLD functions.
- Auto-power off function.
- Backlight function.
- Protective cap for safe storage.
- Attached with carrying strap.
- Storage temperature:**
  - 20°C to 60°C, 0 to 80% R.H. with battery removed from meter.
- Low battery indication:**
  - The "🔋" is displayed when the battery voltage drops below the operating level.
- Battery:**
  - 1.5Vx2pcs AAA size.
- Dimensions:**
  - 24.7mm(T) x 50.9mm(W) x 132.9mm(H)
- Weight:**
  - Approx. 118g including batteries.

## MEASURING RANGES

**Sensor:** Electrical Resistance

**Moisture material**

**8.8 to 54.8%**

For beech, spruce, larch, birch cherry and walnut  
(Grouped as wood 1)

**7.0 to 47.9%**

For oak, pine, maple, ash-tree, Douglas-fir and meranti  
(Grouped as wood 2)

**0.9 to 22.1%**

For cement screed, concrete and plaster (Grouped as mortar 3)

**0.0 to 11.0%**

For anhydrite screed (Grouped as mortar 4)

**0.7 to 8.6%**

For cement mortar (Grouped as mortar 5)

**0.6 to 9.9%**

For lime mortar (Grouped as mortar 6)

**0.1 to 16.5%**

For brick (Grouped as mortar 7)

**Accuracy:**

Conductivity measurement:  $\pm 1\%$  at  $23\pm 5^\circ\text{C}$  ( $73.4\pm 9^\circ\text{F}$ )

**Resolution:** 0.1%

## RELATIVE HUMIDITY

**Sensor:** Digital Capacitive humidity sensor

**Range:** 0% to 100% RH

**Accuracy:**

$\pm 2.5\%$  10% to 90% RH

$\pm 5\%$  0% to 10% RH, 90% to 100% RH

**Sensor Response Time for 90% of Total Range:**

60sec typical.

**Sensor Hysteresis(excursion of 10% to 90% to 10% RH):**  $\pm 1.0\%$  RH typical.

## TEMPERATURE RANGES

**Sensor:** Thermistor temperature sensor, NTC

**Range:** -20°C to 60°C, -4°F to 140°F

**Resolution:** 0.1°C / 0.1°F

**Accuracy:**

$\pm 0.5^\circ\text{C}$  for 0°C to 45°C

$\pm 1.0^\circ\text{C}$  for -20°C to 0°C, 45°C to 60°C

$\pm 1.0^\circ\text{F}$  for 32°F to 113°F

$\pm 2.0^\circ\text{F}$  for -4°F to 32°F, 113°F to 140°F

**Measurement rate:** 1 time/second

**Operating environment:** -20°C to 60°C at <70% R.H.

Stated accuracy at  $23^\circ\text{C}\pm 5^\circ\text{C}$ , <70% R.H.

**Temperature Coefficient:** 0.1 times the applicable accuracy specification per °C out of 18°C to 28°C (64°F to 82°F).

## CHY FIREMATE CO., LTD.

NO.3, SHENGLI 1<sup>ST</sup> ST., XINTIAN VILLAGE,  
RENDE DISTRICT, TAINAN CITY, TAIWAN R.O.C.  
TEL: 886-6-2794811 FAX: 886-6-2700227  
E-mail: [chy@chy-meter.com](mailto:chy@chy-meter.com)