

VI-D4

Concrete Moisture Meter

INTRODUCTION

VI-D4 meter was designed in order to measure concrete humidity. Its unquestionable advantage is nondestructive method of measurement with simultaneous high accuracy and easiness of use.

TECHNICAL DETAILS

- **Dimension:** 147 x 89 x 33 mm
- **Power supply:** 2 x AA batteries
- **Average working time on one battery set:** 20 hours
- **Display:** graphic monochrome 128 x 64 pixels, size 61 x 33 mm with backlight
- **Operating temperature range:** 5°C to 40°C
- **Accuracy:** $\pm 0.5\%$

Scales:

- 1 - Concrete (0-6% H₂O)
- 2 - Cement Screed (0-6% H₂O)
- 3 - Cement Screed (0-4% CM)
- 4 - Anhydrite Screed (0-3.5% H₂O)
- 5 - Anhydrite Screed (0-1.9% CM)
- 6 - Caisson 0.3-15.3 Scale (0.3-15.3 m)
- 7 - Relative Scale (0-100%)
- 8 - Gypsum (0-10%)



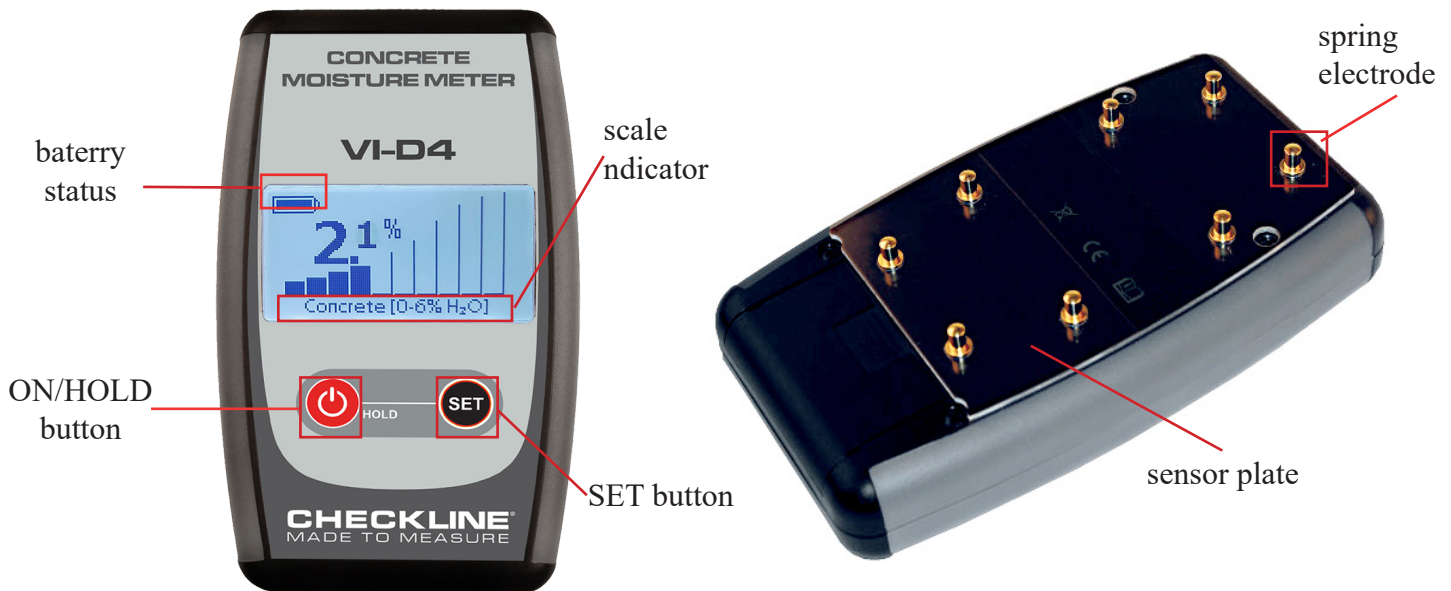
1. General function

VI-D4 meter calculates humidity of analyzed material by measuring its electrical impedance. The relation between humidity of certain material and its impedance is directly proportional. Impedance is measured through generating low frequency electric field between electrodes. The meter measures low intensity alternating current flowing through electric field and on that basis calculates moisture of tested material.



2. Constraints

Concrete Moisture Meter VI-D4 does not detect concrete humidity through electricity conducting materials like metal coverings/linings, PE-rubber or any wet surfaces. Moisture Meter VI-D4 should not be used to measure concrete humidity on surfaces which are topped with a thick layer of floor covering material like wood. Meter measurement outcomes show the actual humidity at a time of measurement.



To turn on the meter press ON/HOLD button.

Use the SET button to select the measuring scale:

- 1 - Concrete (0-6% H₂O)
- 2 - Cement Screed (0-6% H₂O)
- 3 - Cement Screed (0-4% CM)
- 4 - Anhydrite Screed (0-3.5% H₂O)
- 5 - Anhydrite Screed (0-1.9% CM)
- 6 - Caisson 0.3-15.3 Scale (0.3-15.3m)
- 7 - Relative Scale (0-100%)
- 8 - Gypsum (0-10%)

Name of chosen scale will appear in the scale indicator field. To see detailed description of each scale go to Available scales section.

- To set the mode of measurement press ON/HOLD button. There are 2 available modes: Normal, Max