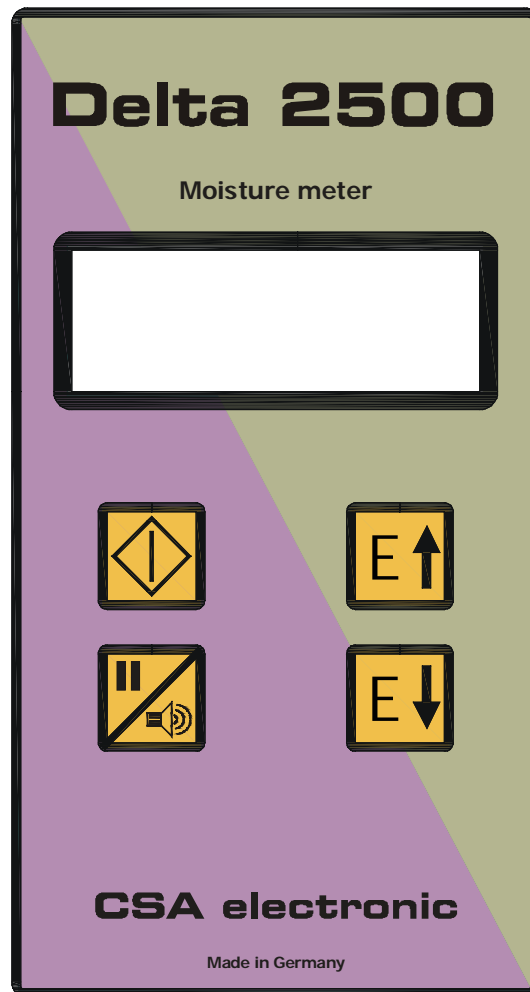


OPERATING MANUAL



Compact hand-held measuring unit
for non-destructive measuring of the
moisture in building materials

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Contents

INTRODUCTION: 2

SWITCH – ON:..... 2

SWITCH – OFF:..... 2

MEASURING: 2

HOLD – FUNCTION: 3

FUNCTION ALARM (LIMIT): 3

SELECTION OF BUILDING MATERIAL GROUPS:..... 3

BUILDING MATERIAL GROUPS: 3

POWER SUPPLY:..... 4

ATTENTION: 4

TECHNICAL DATAS: 4

INTRODUCTION:

With the wood moisture measuring device **Delta 2500**; **CSA electronic** introduces again a processor controlled hand-held-moisture meter to the market, which is unique in design and practical application. The **Delta 2500** works on high frequency according to the contact measurement process, thus a damage of the material to be measured is excluded.

Individually to use and reasonable in price, designed to fulfil requirements economically, this unit satisfies the demands made on a modern precision measuring apparatus in every respect.

This fully digital moisture measuring unit guarantees reliability, durability and a high standard of accuracy ,and a long lasting readiness of operating, even under the stress of an uncompromising everyday use.

The setting of the building material groups combined with the automatic zero correction, allow exact measurements on many of common building materials.

The **Delta 2500** moisture measuring device is equipped with an international standardized 9-Volt alkali block-battery, which can be obtained anywhere

SWITCH – ON:



By pressing this key once, if the device is off, the unit is switched on.

SWITCH – OFF:



By pressing this key once, if the device is on, the unit is switched off.

OR:

If the device is on and not in use, it will go off by itself after approximately 2 minutes.

MEASURING:

After switching on the unit, it **must** be hold up in the air for automatic zero point correction.

After the figures „ – 00.0 “ are indicated on the display, the measuring springs have to be put onto the material to be measured and measurements can be taken. Only after a few seconds, the correct and constant measuring value is determined. This value is indicated by a minus sign „ – “ on the left side of the display and can now be read.

All measuring springs must have a good contact with the material to be measured. This guarantees exact measuring results.

HOLD – FUNCTION:



If this key is being pressed before measurement is taken, the measured value is kept „frozen“. Now it is possible to take measurements at places where the values can't be read directly.

The activated HOLD function is indicated with a colon “:” at the left side of the display.

By pressing this key again, the HOLD-function is de-activated.

Function alarm (Limit):



The **Delta 2500** is equipped with a signaller. As soon as the measured value exceeds the set limit, a signal is activated. This function is very useful for a quick selection of building materials. In order to activate this function, or to indicate, or to change the limit, keep this key pressed for about 2 sec. – until the letter **L** and the value in % is shown on the display. This value is the set value of the limit. By pressing this key again during indication, the value increases in steps of 0,1% up to 3,6%. Then the limit starts from 0,6% again. So the range for this alarm signal can be set between 0,6% and 3,6%. After 2 sec., as soon as no changing is being made anymore, the unit automatically switches to “measurement”.

ATTENTION: After setting the limit, the **HOLD**-function is de-activated and should – if necessary – be selected again.

After the automatic or manual switch-off, the set limit is stored until the next settings are made.

SELECTION OF BUILDING MATERIAL GROUPS:



After the unit has been switch-on, the previous selected group is indicated on the Display (E1 – E6). Each time the „arrow-up“ key **E** is being pressed (during the selected group is indicated) the unit goes to the next higher group (in steps of 1). Correspondingly the building material group is shifted down if the „arrow-down“ key **E** is being pressed.

BUILDING MATERIAL GROUPS:

These building materials can be selected and measured:

E1 = stucco (gypsum plaster)

E2 = B25 concrete

E3 = lime cement plaster

E4 = cement screed

E5 = gypsum screed

E6 = anhydrite screed

POWER SUPPLY:

The unit is equipped with an international standardized 9-Volt-alkali block-battery. A too low power supply is indicated by an arrow in left direction “ ← “ at the left; upper side on the display. A new battery should be inserted to achieve correct measuring results further on.

ATTENTION:

According to the regulations for battery dispose, all batteries must be returned to the trade or to battery collecting points.

You are not allowed to dispose batteries through the household waste.

TECHNICAL DATAS:

<u>Measuring range:</u>	0% - 20% depending on material
<u>Measuring accuracy:</u>	ca. +/- 1%
<u>Operating temperature:</u>	- 10°C / + 60°C
<u>Measuring depth:</u>	4 inch (max.)
<u>Dimensions:</u>	ca. 5 ⁹ / ₁₀ x 2 ⁸ / ₁₀ x 1 ²⁶ / ₁₀₀ inch (LxWxH)
<u>Housing material:</u>	ABS
<u>Weight:</u>	ca. 150g c/w battery
<u>Indispensable for:</u>	- Architects - Carpenters - Workmen in the building trade - Flooring industry - Parquetry

(Technical modifications reserved)