

## Portable system for water content measurement in materials



- ▶ Easy-to-handle portable device
- ▶ Volumetric percentage or gravimetric percentage of water content determination
- ▶ Calculation of number of liters of water for  $m^3$
- ▶ Soil temperature measurement
- ▶ Selectable calibration curves available (up to 15) to obtain the correct gravimetric water content
- ▶ Fast measurement of water content (3" response time)

Easy-to-handle, quick and sturdy portable system for fast determination of water content and temperature in sand, gravel and other inert materials used in construction industry such as cement companies, quarries and in waste disposal and composting installations.

The instrument provides two parameters:

- Volumetric percentage (% water volume/material volume) or gravimetric percentage (% water weight/dry weight) of water content
- Number of liters of water for  $m^3$  (in case of material density value)

The instrument can measure the water content of 1 kg of material with a single measurement.

According to the application, up to 15 values of specific calibration of the selectable materials can be chosen.

In configuration mode, users can customize their own material by storing the curve and by entering its density ( $kg/dm^3$ ), a necessary parameter to obtain the correct gravimetric water content. After a few seconds of measuring, the system shows the mean values as a result.

### Technical Specifications

Code	DQA345	
<b>Water volume</b>	Measurement 1	Gravimetric or volumetric water content 0...100%
	Measurement 2	% water for $m^3$ of material
	Sensitive element	TDR (Time-Domain-Reflectometry)
	Accuracy	$\pm 0.2\%$
	Resolution	0.1%
	Measurement volume	1 Kg
	Response time (T90)	3"
<b>Temperature</b>	Measuring range	-15...50 °C
	Sensitive element	Digital sensor
	Accuracy (absolute)	$\pm 1.0^\circ C$
	Accuracy (relative)	$\pm 0.5^\circ C$
	Resolution	0.1°C
	Response time (T63)	600"

<b>General information</b>	Power supply	4.8 Vdc
	Battery	Up to 1500 measuring cycles
	Battery recharge time	120'
	Housing	Watertight box (IP67) included
	Weight	0,43 kg (without housing)
	Included accessory	Extension tube, L= 1 m
	Fixed calibration	Calibrations for sand, gravel and inert materials are pre-installed
	Custom calibration	Storage of 15 user-defined calibration curves

### Accessories

	<b>DME837.1</b>	Spare electrode for DQA345
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