Portable system for water content measurement in materials

Easy-to-handle, quick and sturdy, 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:

1) Volumetric percentage (% water volume /material volume) or gravimetric percentage (% water weight/dry weight) of water content
2) Number of water liters for m3 (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 selected. In configuration mode, users can customize their own material by storing the curve and by entering its density (kg/dm3), 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.

Order numb.	**DQA345**	
Water volume	*Measurement 1*	Gravimetric or volumetric water content 0÷100%
	Measurement 2	% water for m_3 of material
	Sensitive element	TDR (Time-Domain-Reflectometry)
	Accuracy	±0,2%
	Resolution	0,1%
	Measurement Volume	1 Kg
	Response Time (T90)	3”
Temperature	*Measuring range*	-15÷50 °C
	Sensitive element	Digital sensor
	Accuracy (absolute)	±1,0 °C
	Accuracy (relative)	±0,5 °C
	Resolution	0,1 °C
	Response Time (T63)	600”
General information	*Power supply*	4,8 Vdc
	Battery	Up to 1500 measuring cycles
	Battery recharge time	120’
	Housing	Watertight (IP67)
	Fixed Calibration	Calibrations for sand, gravel and inert materials are pre-installed
	Custom Calibration	Storage of 15 user-defined calibration curves