

## System for pH measurement in materials



- ▶ pH measurement in leachate
- ▶ Possibility of sensor calibration by inserting the probe in a sample solution
- ▶ 2 Serial Ports RS485
- ▶ 2 Analog programmable outputs for measurement
- ▶ 2 Relay Outputs for intervention thresholds
- ▶ 1 Relay Output for anomaly alert

Process control instrument to connect the pH probe (DQA431.2) for measurements in the leachate, it is equipped with a proportional control output, function for checking the status of the probe and various outputs. The control unit has a 4...20 mA programmable output with free wires, it is equipped with a keyboard for programming and calibrating the probe. The display can show the acquired data.

Thanks to the intuitive programming menu it is very easy to start and control the dosing system.



RS485 serial port for remote set-up and acquisition in real time or for downloading recorded data on a PC or laptop, via the MODBUS RTU communication protocol.

The probe can be used for measurement thanks to the DQA431.3 sensor holder for immersion.

### Technical Specifications

PN		DQA531	DQA531.1
<b>Regulation (programmable functions P, PI, PID)</b>	Activation	On analog or digital output	
	Proportional Range	0...500%	
	Time	Integral and/or derivative 0:00...5:00 min	
<b>Analog outputs</b>	Output 1	4...20 mA programmable for measurement	
	Output 2	4...20 mA programmable for measurement/PID regulation	
<b>Digital outputs</b>	Intervention thresholds	2 relay outputs	
	Anomaly alert	1 relay output for anomaly alert	
<b>Power supply</b>	Type	100...240 V AC/DC 50...60 Hz	24 V AC/DC
	Average absorption	< 7W	
	Electrical protection	EMI / RFI CEI-EN55011 – 05/99	
<b>General information</b>	Weight	1 kg	

## Accessories

	<b>DQA431.2</b>	Electrode pH filled with KCl Cable L=5 m for DQA531 suitable for liquids with high percentage of suspended solids	
		Range	0...14 pH
		Operative Temperature	0...50 °C
		Max pressure	2 bar
		Min fluid conductivity	5 µS/cm
		Elettrolite	KCl - KNO3
		Dimensions	Ø 12 mm
		Material	Glass
	<b>DQA431.3</b>	Sensor holder for immersion, for DQA531. The plexiglass tank tube allows to constantly check the amount of KCl presence.	
		Dimensions	L 150 cm; Ø 42 mm
		Materials	Tube: Plexiglass; Cap and protection : PP
	<b>DQA431.4</b>	Trimolar solution KCl for lechate measurements, 1 l set	