

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		DQA431	DQA431.1
Regulation (programmable functions P, PI, PID)	Activation	On analog or digital output	
	Proportional Range	0...500%	
	Time	Integral and/or derivative 0:00...5:00 min	
Analog outputs	Output 1	4...20 mA programmable for measurement	
	Output 2	4...20 mA programmable for measurement/PID regulation	
Digital outputs	Intervention thresholds	2 relay outputs	
	Anomaly alert	1 relay output for anomaly alert	
Power supply	Type	100...240 Vac/dc 50...60 Hz	24 Vac/dc
	Average absorption	< 7W	
	Electrical protection	EMI / RFI CEI-EN55011 – 05/99	
General information	Weight	1 kg	

Accessories

	DQA431.2	Electrode pH filled with KCl Cable L=5 m for DQA431 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
	DQA431.3	Sensor holder for immersion, for DQA431. 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
	DQA431.4	Trimolar solution KCl for lechate measurements, 1 L set	