

KAPTA 2000

pH/ ORP, FREE ACTIVE CHLORINE, TEMPERATURE MEASURING & CONTROL INSTRUMENTS

Chlorine (HOCl, HOBr or ClO₂) & Temperature

Typical applications

- > Water quality control
- > Drinking water security
- > Industrial process control
- > Chemical dosing measurement and control
- > RO membrane security
- > Swimming pool water quality
- > Cooling towers
- > Fish farming

Benefits

- > Real-time water network monitoring
- > No on-going membrane / electrolyte maintenance
- > Chemical free operation

Main features

- > Amperometric sensor
- > Measurement of the main disinfection species: HOCl, HOBr or ClO₂
- > User replaceable sensing head
- > Inline monitoring at up to 10 bar pressure
- > Easy conditioning
- > 1 year shelf life



General description

The KAPTA™ 2000 controller has been designed specifically for the industrial and water treatment markets and, coupled with the KAPTA™ 2000-AC2 chlorine and temperature probe, provides a rapid, accurate measurement of free chlorine.

The controller is equipped with all the key functions required to provide the user with flexibility for set-up, measurement and control of systems from simple chlorine measurement and recording right through to industrial process control and chemical dosing.

The KAPTA™ 2000 controller is capable of measuring chlorine, ORP, pH and temperature and is fitted with 2 current outputs, 4 relays and P.I.D. functionality allowing up to 6 external points to be measured or controlled. Operation of the controller is simple with a 128x64 pixel resolution graphic display providing continuous readout of chlorine / temperature measurement and status of the control output devices, selectable in a choice of 5 different languages (English, French, German, Italian and Spanish).

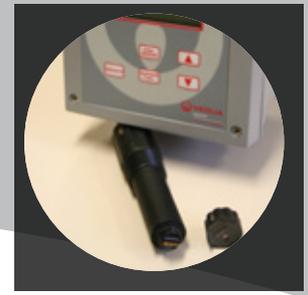
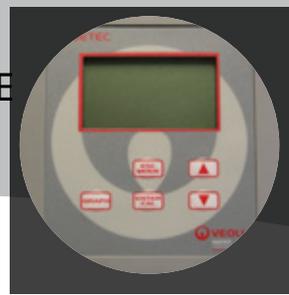
The controller is IP66 rated, wall mounted and equipped for RS485 serial port communication for remote monitoring and data storage. On-board software is designed for 2 point calibrations to ensure accuracy, reliable performance and sensor diagnostic information.



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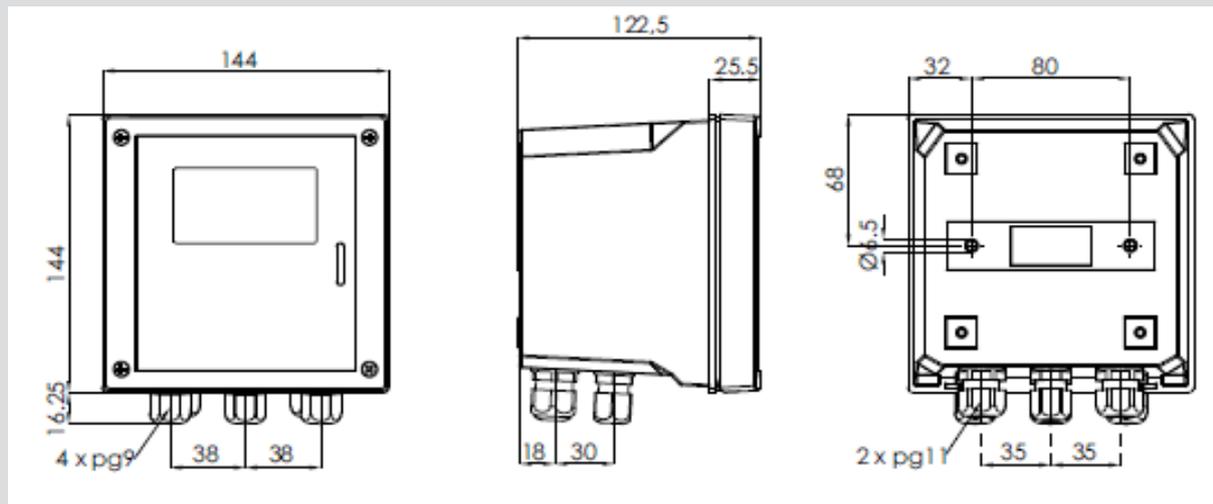


Compatible with Sensing Module Probes Models: KAPTA™ 2000-AC2 R1_O1_F1 and KAPTA™ 2000-AC2 R1_O1_F2

Specifications (Controller)

General specifications	<ul style="list-style-type: none"> • Measurement of free chlorine or active chlorine (HOCl), temperature (PT 1000) and pH (optional) • Simultaneous display of chlorine and temperature • Wall mounted • Internal flash 4 Mbit memory • PID adjustment and control • Serial output RS485 modbus RTU • 2 Programmable analogue outputs 		
Display	Back-lit LCD 128x64 pixel	Sensor Inputs	
Analogue Inputs	Measurement and Measurement / Control	Digital Communication	Serial RS485 Modbus RTU
4 – 20mA Outputs		Relay Outputs	
Measurement accuracy	±2.5% F.S. (chlorine) ±1.0% F.S. (temperature)	Dimensions	144mm x 144mm x 122.5mm
Operating temperature range	-10 to +130 degrees C	Electrical Rating	IP66
Weight	1 Kg	Power Consumption	< 7 W
Enclosure material	ABS, Grey RAL 745 (body) Polycarbonate, UV resistant (Frontal)	Power Rating	100 to 240 Vac

Controller dimensions (cm)



Performance (Sensing Module)

Model	Free active chlorine range	Chlorine output	Chlorine sensitivity	Temperature sensitivity	Input voltage	Thread
KAPTA™ 2000 AC2 R1_O1_F1	0 – 5 ppm	4 – 20 mA	1.4 - 2.1 mA/ppm	4 wires output for PT1000	10 – 24 VDC	BSPT
KAPTA™ 2000 AC2 R1_O1_F2			NPT			
KAPTA™ 2000 AC2 R2_O1_F1	0 – 2 ppm		3.5 - 5.2 mA/ppm			BSPT
KAPTA™ 2000 AC2 R2_O1_F2						NPT

Active Chlorine Range R1: 0 – 5 ppm, R2: 0 – 2 ppm, Chlorine Output O1: 4 – 20 mA, O2: 0 – 5 V, Threaded Fitting F1: BSPT, F2: NPT

Model Measuring & Control Instrument	Part number
KAPTA™ 2000 controller	CONT21000
Model Sensing Module	
KAPTA™ 2000 AC2 R1_O1_F1	PROB21000
KAPTA™ 2000 AC2 R1_O1_F2	PROB21001
KAPTA™ 2000 AC2 R2_O1_F1	PROB21002
KAPTA™ 2000 AC2 R2_O1_F2	PROB21003
KAPTA™ 2000 AC2 replaceable sensing head	HEAD21000

Ordering information

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