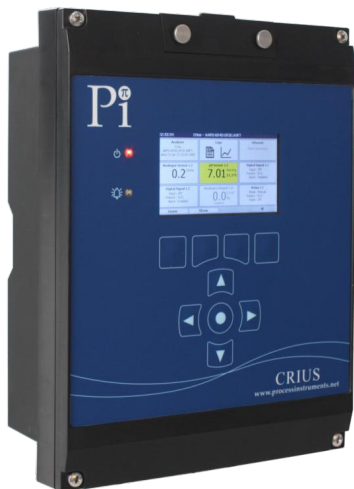


# Pi CRIUS<sup>®</sup>

Water Quality Analyzer  
Water Quality Monitor  
Water Quality Controller  
Water Quality Instrument

## CRIUS<sup>®</sup> + Sensors = Product Name



### Superior Communications

Part of a range of controllers, the CRIUS<sup>®</sup> is the big brother of the CRONOS<sup>®</sup> and offers more sensor connections, more functionality and more flexibility with a color screen and optional built in 3G modem. The CRIUS<sup>®</sup> is an attractively priced, top of the range instrument controller. Optional comms packages allow Profibus, Modbus ASCII, Modbus RTU, Modbus TCP and others.

### More Sensors. More Control

CRIUS<sup>®</sup> is equipped with the capability to connect up to 4 sensors of any type with optional analogue outputs and relays. 4 sensors not enough? Simply connect up to 4 CRIUS<sup>®</sup> together all using the same display and communications. Equipped with datalogging as standard and multiple PID loops as options, CRIUS<sup>®</sup> is very able to control complex water treatment processes at a fraction of the cost of other controllers.

### Easier To Use

With simple 'plug & play' inputs and outputs, intuitive display and button control, and with an individual manual configured to be the same as your analyzer, the CRIUS<sup>®</sup> makes setup and ongoing use simple and easy.

### Better Security

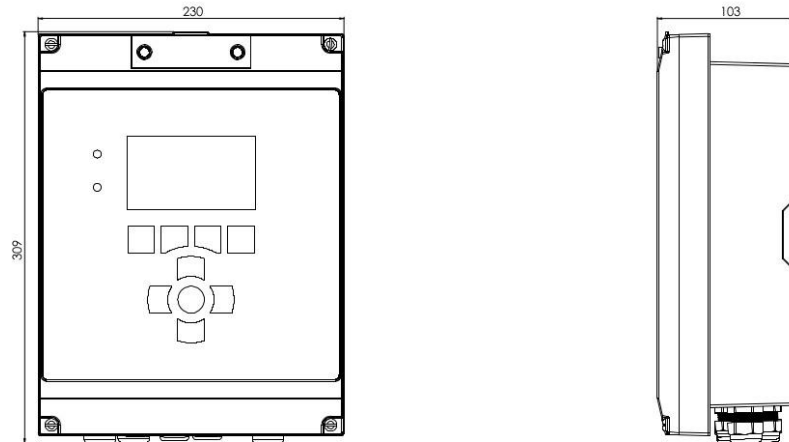
With all users having their own log on, and with three levels of instrument and remote access security, you can use CRIUS<sup>®</sup> with all of its superior functionality with confidence.

Free Chlorine Analyzer	<b>HaloSense</b>
Total Chlorine Monitor	<b>HaloSense</b>
Chlorine Dioxide Analyzer	<b>DioSense</b>
Ozone Monitor	<b>OzoSense</b>
Dissolved Oxygen Meter	<b>OxySense</b>
Suspended Solids Monitor	<b>SoliSense</b>
Streaming Current Monitor	<b>StreamerSense</b>
pH Analyzer	<b>pHSense</b>
ORP Analyzer	<b>ORPSense</b>
Organics Monitor	<b>UV254Sense</b>
Biofilm Monitor	<b>BioSense</b>
Online Conductivity Monitor	<b>ConductiSense</b>
Particle Counter	<b>CounterSense</b>
Filter Monitor (Particle Counter)	<b>FilterSense</b>
Coagulation Controller	<b>CoagSense</b>
Turbidity Monitor	<b>TurbSense</b>

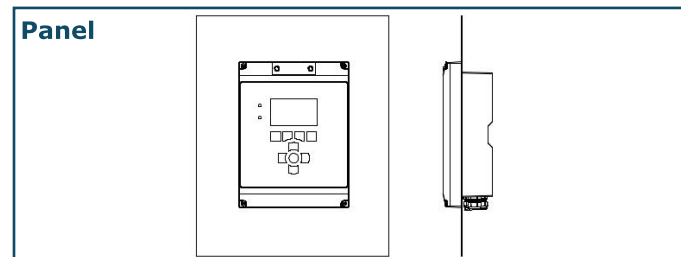
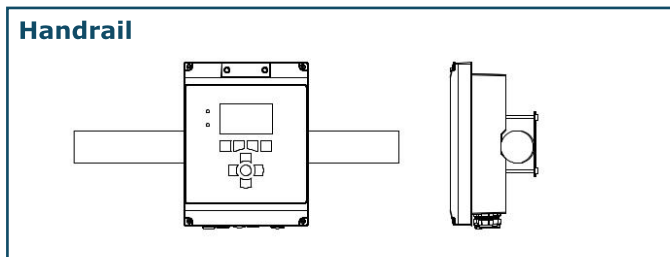
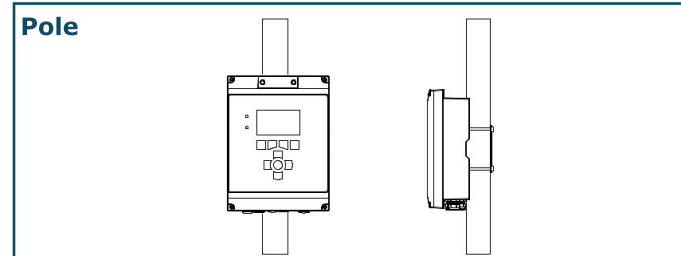
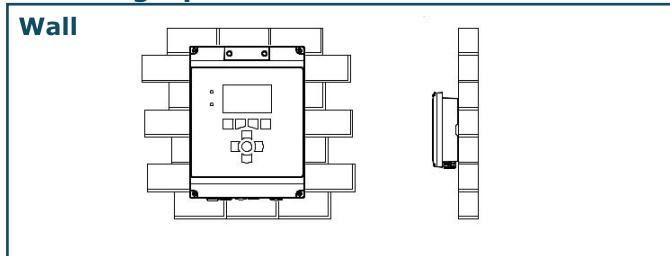
Each 'Sense' analyzer has its own brochure, detailing applications and common accessories. Please click on the product name above if you are online. If not, please visit the [website](http://www.processinstruments.net) to access all Pi's product brochures.

	CRONOS <sup>®</sup>	CRIUS <sup>®</sup>
Highest quality sensors	•	•
Multilingual	•	•
System logger	•	•
On display trending	•	•
Event logger	•	•
Download logs	Optional	•
PID controls	Optional	Optional
Up to 2 sensors	•	•
Up to 4 sensors		•
Expandable up to 16 sensors		Optional
Analogue outputs V and mA	•	•
Isolated universal inputs & outputs	•	•
Large high resolution display	•	•
Color display	Optional	•
Up to 8 relays	•	•
Expandable up to 32 relays		Optional
Up to 8 digital inputs	•	•
Expandable up to 32 digital inputs		Optional
Remote internet access		Optional
GSM/GPRS/3G integrated modem		Optional
Remote Access LAN		Optional
Profibus	Optional	Optional
Modbus ASCII/RTU serial	Optional	Optional
Modbus TCP (LAN enabled)	Optional	Optional
AC/DC (110-240VAC, 12VDC)	•	•
Wall and Panel mountable	•	•
Pole and handrail mountable	•	•
IP65/Nema 4X enclosure	•	•
Fire retardant ABS Enclosure	•	•

## Dimensions



## Mounting Options



## Specification\*

### CRIUS®

*\*All subject to change without notice*

<b>Power Requirements</b>	100-240 VAC/0.25 A or 12 VDC/0.8 A
<b>Languages</b>	Any non pictogram by request Any Latin, Cyrillic, Hellenic
<b>Inputs</b>	Up to 4 configurable sensor inputs (expandable to 16 inputs); 4-20 mA, 4-20 mA loop-powered, 0-2 VDC, +/- 1200 mV for pH, ORP, or ISEs, PT100, potentiometric, pulse and Modbus. Unused sensor inputs can be used as outputs. Up to 8 digital inputs (expandable to 32)
<b>Outputs</b>	Up to 4 dedicated configurable analogue outputs (expandable to 16 outputs), 0-20mA, 4-20mA, 0-1 VDC, 0-10 VDC, 1-10 VDC. Up to 8 SPDT electromechanical relays (expandable up to 32 relays) rated 10A at 250 VAC and 5A at 30 VDC
<b>Alarms</b>	2 user configurable alarms with deadband and delay for each measurement and control output.
<b>Thresholds</b>	2 user configurable thresholds (for control) with deadband and delay for each measurement and control output
<b>PID</b>	Configurable flow proportional PID - multiple loops
<b>Communication (Optional)</b>	Modbus ASCII/RTU (RS485) Profibus DP Modbus TCP (Ethernet) 2G/3G Modem
<b>Memory Backup</b>	All user configuration is stored in non-volatile on-board flash memory
<b>Enclosure</b>	ABS flame retardant IP65, Nema 4X
<b>Dimensions (mm)</b>	230 x 309 x 103
<b>Display</b>	4.3", 480 x 272, 24 bit color
<b>Weight</b>	2 kg
<b>Warranty</b>	12 months from date of purchase (longer warranty optional)
<b>Data Logging</b>	Internal - Single Parameter, downloadable data logs or status message logs over 1 million records.