

# CRONOS®

Water Quality Analyser  
Water Quality Monitor  
Water Quality Controller  
Water Quality Instrument



## CRONOS® + Sensors = Product Name

|                                   |                      |
|-----------------------------------|----------------------|
| Free Chlorine Analyser            | <b>HaloSense</b>     |
| Total Chlorine Monitor            | <b>HaloSense</b>     |
| Chlorine Dioxide Analyser         | <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 Analyser                       | <b>pHSense</b>       |
| ORP Analyser                      | <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>   |
| Turbidity Meter                   | <b>TurbSense</b>     |

Each 'Sense' analyser 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.co.uk) to access all Pi's product brochures.

## High Quality-Low Cost

Part of a range of controllers, the CRONOS® is the little brother of the CRIUS®. The CRONOS® is a high quality, low cost transmitter designed to give water treatment engineers everything that they need from a transmitter and nothing that they don't.

## Superior Communications

With no frills, costs can be kept to a minimum whilst optional comms packages allow Profibus, Modbus ASCII, Modbus RTU, Modbus TCP, 4-20mA analogue outputs, and relays for alarms and control.

## PID Control Options

CRONOS® has the capability to control up to two sensors of any type with appropriate analogue outputs and relays. Equipped with optional PID control CRONOS® is very able to control complex water treatment processes at a fraction of the cost of other controllers.

## Proactive Sensor Maintenance

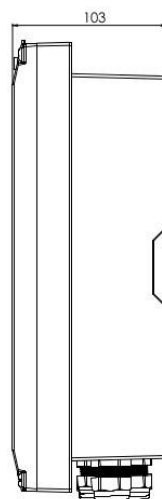
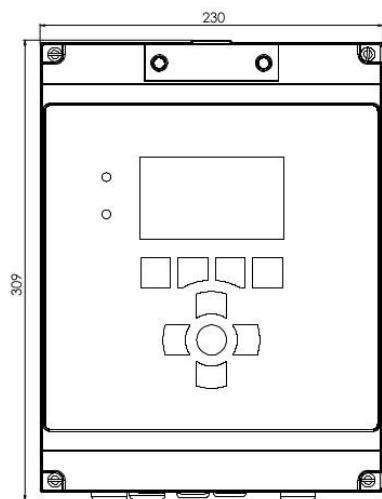
For each sensor the CRONOS® will prompt users through calibration procedures and will remind them when maintenance is due for each sensor type.

Customers requiring additional functionality such as a colour display, downloadable data logs, or remote access via the internet should consider a CRIUS® controller.

## CRONOS® CRIUS®

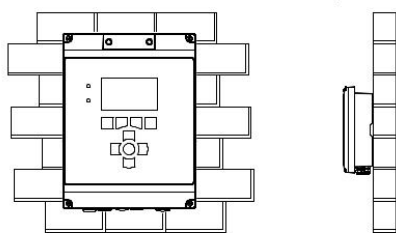
|                                     |          |          |
|-------------------------------------|----------|----------|
| Highest quality sensors             | •        | •        |
| Multilingual                        | •        | •        |
| System logger                       | •        | •        |
| 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       | •        | •        |
| Colour 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

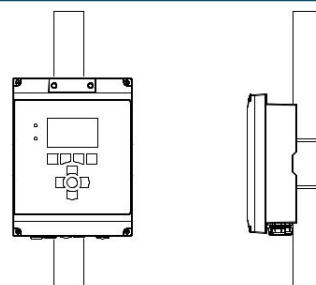


## Mounting Options

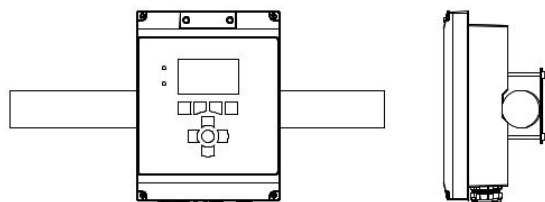
### Wall



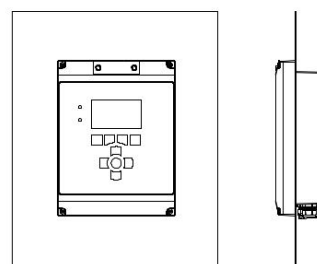
### Pole



### Handrail



### Panel



## Specification\*

### CRONOS®

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

*\*All subject to change without notice*