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® + Sensors = Product Name

- Free/Total Chlorine Analyser
- Chlorine Dioxide Analyser
- Ozone Monitor
- Dissolved Oxygen Meter
- Suspended Solids Monitor
- Streaming Current Monitor
- pH Analyser
- ORP Analyser
- Organics Monitor
- Online Conductivity Monitor
- Particle Counter
- Filter Monitor (Particle Counter)
- Turbidity Meter
- Fluoride Monitor
- Peracetic Acid Analyser
- Hydrogen Peroxide Analyser

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 to access all Pi’s product brochures.

CRONOS® CRIUS®

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

www.processinstruments.co.uk
## Dimensions

![Image of a process instrument](image_url)

## Mounting Options

### Wall

![Diagram of mounting option](image_url)

### Pole

![Diagram of mounting option](image_url)

### Handrail

![Diagram of mounting option](image_url)

### Panel

![Diagram of mounting option](image_url)

## Specification*

**CRONOS**

<table>
<thead>
<tr>
<th>Power Requirements</th>
<th>100-240 VAC/0.25 A or 12 VDC/0.8 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Languages</td>
<td>Any non pictogram by request</td>
</tr>
<tr>
<td></td>
<td>Any Latin, Cyrillic, Hellenic</td>
</tr>
<tr>
<td>Inputs</td>
<td>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</td>
</tr>
<tr>
<td>Outputs</td>
<td>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</td>
</tr>
<tr>
<td>Alarms</td>
<td>2 user configurable alarms with deadband and delay for each parameter and control output</td>
</tr>
<tr>
<td>Thresholds</td>
<td>2 user configurable thresholds (for control) with deadband and delay for each measurement and control output</td>
</tr>
<tr>
<td>PID</td>
<td>Configurable flow proportional PID - multiple loops</td>
</tr>
<tr>
<td>Communication (Optional)</td>
<td>Modbus ASCII/RTU (RS485)</td>
</tr>
<tr>
<td></td>
<td>Profibus DP</td>
</tr>
<tr>
<td></td>
<td>Modbus TCP (Ethernet)</td>
</tr>
<tr>
<td>Memory Backup</td>
<td>All user configuration is stored in non-volatile on-board flash memory</td>
</tr>
<tr>
<td>Enclosure</td>
<td>ABS flame retardant</td>
</tr>
<tr>
<td></td>
<td>IP65, Nema 4X</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>230 x 309 x 103</td>
</tr>
<tr>
<td>Display</td>
<td>4.3&quot;, 480 x 272, 8 bit, greyscale (4.3&quot;, 480 x 272, 24 bit colour optional)</td>
</tr>
<tr>
<td>Weight</td>
<td>2 kg</td>
</tr>
<tr>
<td>Warranty</td>
<td>12 months from date of purchase (longer warranty optional)</td>
</tr>
<tr>
<td>Data Logging</td>
<td>Internal - Single parameter data log or status message log over 1 million records (downloadable data logs optional)</td>
</tr>
</tbody>
</table>

*All subject to change without notice*