

Pi CRIUS[®] 4.0

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



CRIUS[®] 4.0 + Sensors = Product

Free/Total Chlorine Analyser	HaloSense
High and Low Range Bleach Monitor	HypoSense
Chlorine Dioxide Analyser	DioSense
Ozone Monitor	OzoSense
Dissolved Oxygen Meter	OxySense
Suspended Solids Monitor	SoliSense[®]
Streaming Current Monitor	StreamerSense
pH Analyser	pHSense
ORP Analyser	ORPSense
Organics Monitor	UV254Sense
Online Conductivity Monitor	ConductiSense
Particle Counter	CounterSense
Filter Monitor (Particle Counter)	FilterSense
Coagulation Controller	CoagSense
Turbidity Meter	TurbSense[®]
Fluoride Monitor	FluoriSense
Peracetic Acid Analyser	PeraSense

Each 'Sense' analyser has its own brochure, detailing typical applications and common accessories. Please visit the [website](http://www.processinstruments.co.uk) to access all Pi's product brochures.

Superior Communications

Part of a range of controllers, the CRIUS[®] 4.0 is the 'big brother' of the CRONOS[®] and offers more sensor connections, more functionality and more flexibility with a colour screen and optional built in 3G/4G modem. The CRIUS[®] 4.0 is an internet of things (IoT) enabled top of the range instrument analyser/controller. Optional comms packages include MQTT, Profibus, Modbus ASCII, Modbus RTU, Modbus TCP and others.

More Sensors. More Control

CRIUS[®] 4.0 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[®] 4.0 together all using the same display and communications. Equipped with datalogging as standard and multiple PID loops as options, CRIUS[®] 4.0 is able to control complex water treatment processes at a fraction of the cost of other controllers.

Easier To Use

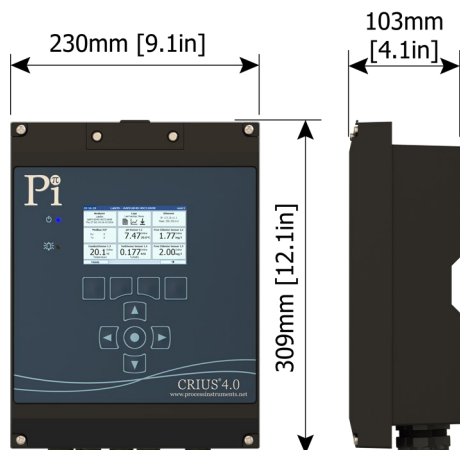
With simple 'plug & play' inputs and outputs, intuitive display and button control and with an individual manual configured to be the same as your analyser, the CRIUS[®] 4.0 makes setup and ongoing use simple and easy.

Better Security

With all users having their own login profiles and with three levels of instrument and remote access security, you can use CRIUS[®] 4.0 and all of its superior functionality with confidence.

	CRONOS [®]	CRIUS [®] 4.0
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
Integrated cellular modem/LAN		Optional
MQTT		•
Profibus	Optional	Optional
Modbus ASCII/RTU serial	Optional	Optional
Modbus TCP (LAN enabled)	Optional	Optional
AC/DC (110-240VAC)	•	•
DC (9-36VDC)	Optional	Optional
Wall and panel mountable	•	•
Pole and handrail mountable	•	•
IP65/Nema 4X enclosure	•	•
Fire retardant ABS Enclosure	•	•

Dimensions



CRIUS® 4.0 with optional expansion boxes

Mounting Options

Wall



Pole



Handrail



Panel



Specification*

CRIUS® 4.0

Power Requirements

100-240 VAC/0.25 A
9-36VDC (optional)

Languages

Any non pictogram by request
Any Latin, Cyrillic, Hellenic

Inputs

Up to 4 configurable sensor inputs; 4-20mA, 4-20mA loop-powered, 0-2 VDC, +/- 1200 mV for pH, ORP, or ISEs, PT100, pulse and Modbus. Expandable to 16 inputs. Unused inputs can be used as outputs. Up to 8 digital inputs, expandable to 32

Outputs

Up to 4 configurable analogue outputs; 0-20mA, 4-20mA, 0-1 VDC, 0-10 VDC, 1-10 VDC. Up to 8 SPST electromechanical relays rated 10A at 175 VAC, 3A at 750 VAC, 5A at 30 VDC.

Alarms

2 user configurable alarms with deadband and delay for each parameter and control output

Thresholds

2 user configurable thresholds (for control) with deadband and delay for each measurement and control output

PID

Configurable flow proportional PID - multiple loops

Communication (Optional)

MQTT
Modbus ASCII/RTU (RS485)
Profibus DP
Modbus TCP (Ethernet)
2G/3G/4G Modem

Memory Backup

All user configuration is stored in non-volatile on-board flash memory

Enclosure

ABS flame retardant IP65, NEMA 4X

Dimensions (mm)

230 x 309 x 103

Display

4.3", 480x272, 24 bit, colour

Weight

2 Kg

Warranty

12 months from date of purchase (optional additional warranty available)

Data Logging

Internal - Downloadable data logs or status message logs, storage for over 1 million records

**All subject to change without notice*