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 to access all Pi's product brochures.

Superior Communications

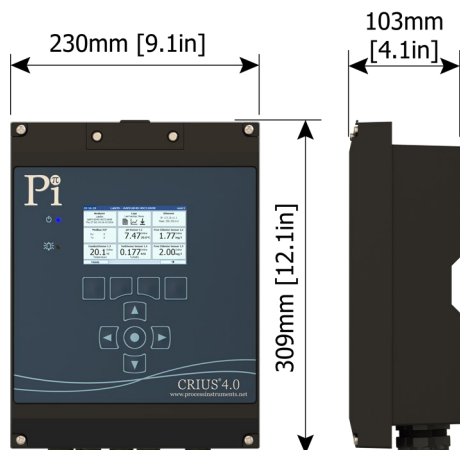Part of a range of controllers, the CRIUS®4.0 is the 'big brother' of the CRONOS® and offers more sensor connections, more functionality and more flexibility with a colour screen and optional built in 3G/4G modem. The CRIUS®4.0 is an internet of things (IoT) enabled top of the range instrument analyser/controller. 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

230mm [9.1in]

103mm [4.1in]

309mm [12.1in]

CRIUS®4.0 with optional expansion boxes

Mounting Options

Wall

Pole

Handrail

Panel

Specification*

All subject to change without notice

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