CRIUS®

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

CRIUS® + Sensors = Product Name

Free/Total Chlorine Analyser	*HaloSense*
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*
Hydrogen Peroxide Analyser	*PeroxiSense*

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.

Superior Communications

Part of a range of controllers, the CRIUS® 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® 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® 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® together all using the same display and communications. Equipped with datalogging as standard and multiple PID loops as options, CRIUS® 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 analyser, the CRIUS® 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® with all of its superior functionality with confidence.
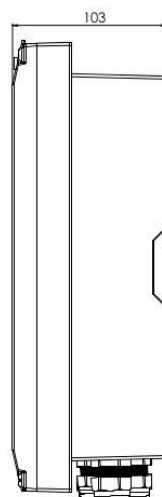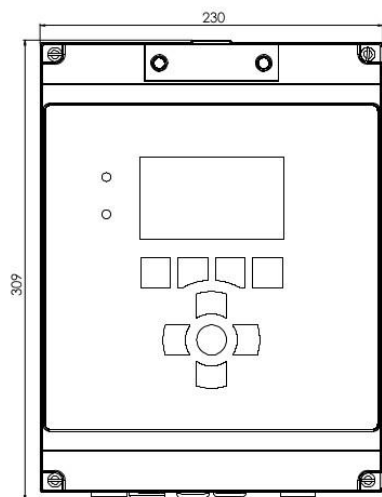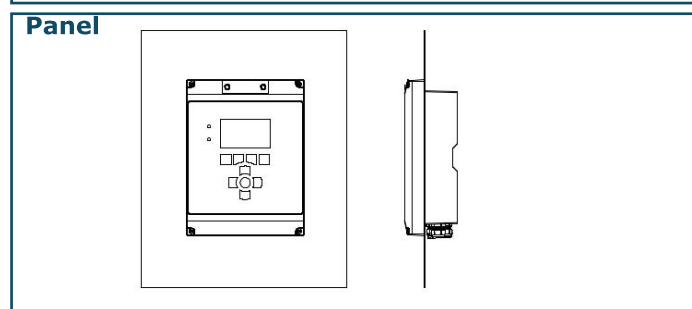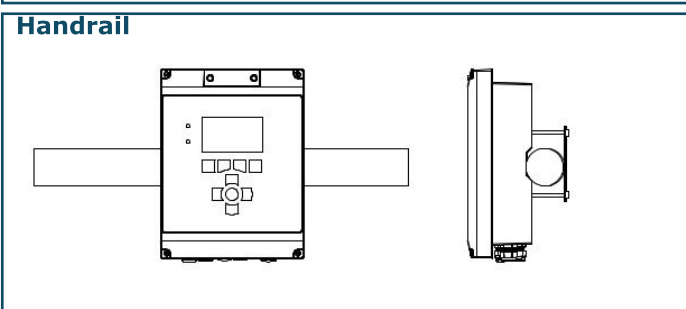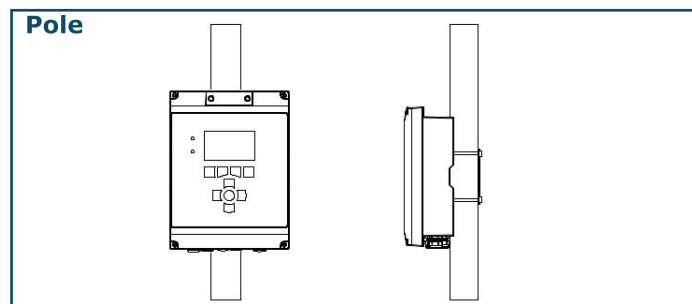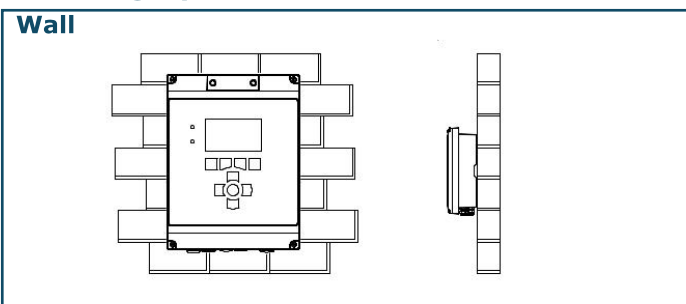
	CRONOS®	CRIUS®
Highest quality sensors	●	●
Multilingual	●	●
System logger	●	●
On display trending	●	●
Event logger	●	●
Download logs	Optional	●
PID controls	Optional	Optional
Up to 2 sensors	●	●
Up to 4 sensors		●
Expandable up to 16 sensors		Optional
Analogue outputs V and mA	●	●
Isolated universal 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/4G 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*

All subject to change without notice

CRIUS®

Power Requirements	100-240 VAC/0.25 A or 12 VDC/0.8 A
Languages	Any non pictogram by request Any Latin, Cyrillic, Hellenic
Inputs	Up to 4 configurable sensor inputs (expandable to 16 inputs); 4-20mA, 4-20mA 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)
Outputs	Up to 4 dedicated configurable analogue outputs (expandable to 16 outputs); 0-20mA, 4-20mA, 0-1 VDC, 0-10 VDC, 1-10 VDC. Unused sensor inputs can be used as additional outputs. Up to 8 SPDT electromechanical relays (expandable up to 32 relays) rated 10A at 250 VAC and 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)	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", 480 x 272, 24 bit colour
Weight	2 kg
Warranty	12 months from date of purchase (longer warranty optional)
Data Logging	Internal - Single parameter, downloadable data logs or status message logs over 1 million records