

Section 10

Measurement & Control

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EMEC CENTURIO TOWER

Cooling Tower Controller

Standard Features:

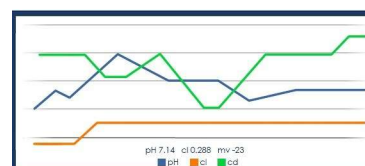
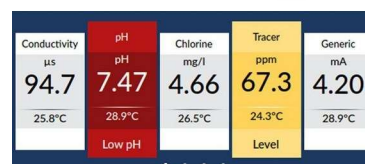
- IP65 Easy Mount Enclosure
- 4.3" LCD Colour Touchscreen
- Customise to Measure and Control Conductivity plus 5 Additional Parameters Simultaneously
- In addition, Turbidity and tank levels can be monitored via RS485
- On Screen Graphs and Permanent Data Logging
- Alarms and Log Reporting
- NIMBUS Remote Configuration and Control
- Integrated connectivity via WIFI, LAN, USB and MODBUS
- Software Update Function
- Pre-Bleed before Biocide Dosing
- 5 Year Warranty*

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NIMBUS

Modbus



Models:

Model	Function
CENTURIO TOWER BASIC	Ethernet, USB, Modbus, WIFI
CENTURIO TOWER GSM	Remote Control by GPRS (mobile network)

Input Modules:

Parameter	Range
CONDUCTIVITY	0.1µS-100mS, 0.01µS-10mS, 0.001µS-1mS, 1µS-1S, temperature compensation
INDUCTIVE CONDUCTIVITY	Non contact conductivity 0-3,000µS, 0-30,000µS, temperature compensation
pH	0-14 pH, temperature compensation
ORP	-999/+999mV, temperature compensation
CHLORINE	Scale based on probe selected, temperature compensation
TURBIDITY	0-4000NTU
mA INPUT	0-20mA analog input module
TRACERS	0-999.9ppm, temperature compensation
CORROSION	0.001-10 MPY

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EMEC CENTURIO POOL

Swimming Pool Controller

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Standard Features:

- IP65 Easy Mount Enclosure
- 4.3" LCD Colour Touchscreen
- Customise to Measure and Control pH plus 5 Additional Parameters Simultaneously
- In addition, Turbidity and tank levels can be monitored via RS485
- On Screen Graphs and Permanent Data Logging
- Alarms and Log Reporting
- NIMBUS Remote Configuration and Control
- Integrated connectivity via WIFI, LAN, USB and MODBUS
- Shock Chlorination Function
- Software Update Function
- 5 Year Warranty*



Models:

Model	Function
CENTURIO POOL BASIC	Ethernet, USB, Modbus, WIFI
CENTURIO POOL GSM	Remote Control by GPRS (mobile network)

Input Modules:

Parameter	Range
CONDUCTIVITY	0.1 μ S-100mS, 0.01 μ S-10mS, 0.001 μ S-1mS, 1 μ S-1S
pH	0-14 pH
ORP	-999/+999mV
CHLORINE	Range based on probe selection
CHLORINE DIOXIDE	Range based on probe selection
BROMINE	0-20 ppm
OZONE	Range based on probe selection
HYDROGEN PEROXIDE	0-200 ppm
TURBIDITY	0-4000NTU
mA INPUT	0/4-20mA analog input module
TRACERS	0-999.9 ppm
TEMPERATURE	0-100 degrees C

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EMEC CENTURIO PRO

Multipurpose Controller

Standard Features:

- IP65 Easy Mount Enclosure
- 4.3" LCD Colour Touchscreen
- Customise to Measure and Control 6 Parameters Simultaneously
- In addition, Turbidity and tank levels can be monitored via RS485
- On Screen Graphs and Permanent Data Logging
- Alarms and Log Reporting
- NIMBUS Remote Configuration and Control
- Integrated connectivity via WIFI, LAN, USB and MODBUS
- Software Update Function
- 5 Year Warranty*

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Models:

Model	Function
CENTURIO PRO BASIC	Ethernet, USB, Modbus, WIFI
CENTURIO PRO GSM	Remote Control by GPRS (mobile network)

Input Modules:

Parameter	Range
CONDUCTIVITY	0.1µS-100mS, 0.01µS-10mS, 0.001µS-1mS, 1µS-1S
INDUCTIVE CONDUCTIVITY	Non contact Conductivity 0-3,000µS, 0-30,000µS
pH	0-14 pH
ORP	-999/+999mV
CHLORINE	Range based on probe selection
CHLORINE DIOXIDE	Range based on probe selection
BROMINE	0-20 ppm
OZONE	Range based on probe selection
HYDROGEN PEROXIDE	0-200 ppm
PERACETIC ACID	Range based on probe selection
TURBIDITY	0-4000NTU
mA INPUT	0/4-20mA analog input module
TRACERS	0-999.9 ppm
TEMPERATURE	0-100 degrees C
CORROSION	0.100-10 MPY

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EMEC MTOWER

Cooling Tower Controller

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Standard Features:

- IP65 Wall Mounted Enclosure
- Easy Control by Encoder Wheel
- Conductivity Measurement
- 2 Biocide Pump Outputs
- 2 Biocide Activator Outputs
- Bleed Valve Control
- Inhibitor Pump Control
- Makeup Flow Meter Input
- Bleed Flow Meter Input
- Standby Input
- Chemical Tank Level Inputs
- Pre-Bleed & Bleed Lockouts
- Temperature Input
- Alarm Output
- Modbus
- 5 Year Warranty*

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Models:

Model	Function
MTOWER CD	Cooling Tower Controller with Conductivity Measurement
MTOWER CD/RH	Conductivity Control with Redox Measurement
MTOWER CD/PH	Conductivity Control with pH Measurement
MTOWER CD/CL	Conductivity Control with Chlorine Measurement
MTOWER CD/TRC	Conductivity Control with Tracer Measurement
MTOWER PLUS CD/PH/RH	Conductivity Controller with Redox and pH Measurement
MTOWER PLUS CD/PH/CL	Conductivity Controller with pH and Chlorine Measurement

Options:

mA Signals out for measured values
Data logging to USB device
Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, email alert
WIFI

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EMEC LD PLUS Duplex

Dual Channel Wall Mounted Controller

Standard Features:

- ABS IP65 Wall Mounted Controller
- Two Parameters
- Easy Control by ENCODER Wheel
- Flow Control
- 4-20mA Output Signals
- Internal Storage with System Log
- PT100 Temperature Compensation
- Modbus
- Standby Input
- PID, On/Off, Impulsive Proportional, Proportional PWM or Fixed PWM & PID Control
- Alarm Output
- 5 Year Warranty*



Models:

Model	Function
LDPHRH PLUS	Digital pH meter (from 0-14pH), and redox meter (from 0-1000mV)
LDPHCL PLUS	Digital pH meter (from 0-14pH), and chlorine meter (configurable for bromine, chlorine dioxide, hydrogen peroxide, ozone or peracetic acid)
LDPHCD PLUS	Digital pH meter (from 0-14pH), and conductivity
LDPHCDIND PLUS	Digital pH meter (from 0-14pH), and inductive conductivity
LDPHETORB2 PLUS	Digital pH meter (from 0-14pH), and turbidity
LDPHTRC PLUS	Digital pH meter (from 0-14pH), and tracer
LDPHFL PLUS	Digital pH meter (from 0-14pH), and fluoride

Options:

When ordering you can specify any parameter combination e.g. LDCLETORB2
Data logging to USB device
Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, email alert
WIFI

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Measurement & Control

EMEC LD Duplex

Dual Parameter Wall Mounted Controller

Standard Features:

- ABS IP65 Wall Mounted Controller
- Two Parameters
- Easy Control by ENCODER Wheel
- Flow Control
- Internal Storage with System Log
- PT100 Temperature Compensation
- Modbus
- Standby Input
- On/Off, Impulsive Proportional, Proportional PWM or Fixed PWM Control
- Alarm Output
- 5 Year Warranty*



Controller Models:

Model	Function
LDPHRH	Digital pH meter (from 0-14pH), and Redox meter (from 0-1000mV)
LDPHCL	Digital pH meter (from 0-14pH), and chlorine meter (configurable for bromine, chlorine dioxide, hydrogen peroxide, ozone or peracetic acid)
LDPHCD	Digital pH meter (from 0-14pH), and conductivity
LDPHCDIND	Digital pH meter (from 0-14pH), and inductive conductivity
LDPHETORB2	Digital pH meter (from 0-14pH), and turbidity
LDPHTRC	Digital pH meter (from 0-14pH), and tracer
LDPHFL	Digital pH meter (from 0-14pH), and fluoride

Options:

When ordering you can specify any parameter combination e.g. PH+PH
Data logging to USB device
4-20mA signals out for measured value
Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, email alert
WIFI

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EMEC LD PLUS

Wall Mounted Controller

Standard Features:

- IP65 Wall Mounted Controller
- Easy Control by ENCODER Wheel
- Flow Control
- 4-20mA Output Signal
- Internal Data Storage with System Log
- Temperature Compensation Input
- Modbus
- Stand-By Input
- Alarm Output
- On/Off, Impulsive Proportional, Proportional PWM, Fixed PWM or PID Control
- Probe Cleaning Output
- 5 Output Relays (2 Set Point; Alarm; Probe Cleaning; Circulation)
- 5 Year Warranty*



Models:

Model	Function
LDSPH PLUS	Digital pH meter (0-14 pH)
LDSRH PLUS	Digital Redox (ORP) meter (0-1000mV)
LDSCCL PLUS	Digital chlorine meter (Total chlorine, free chlorine, bromine, hydrogen peroxide, ozone, peracetic acid), range depends upon probe selection
LDSCD PLUS	Digital conductivity controller (0-300µS, 0-3000µS, 0-30mS, 0-300mS)
LDSCDIND PLUS	Digital controller for inductive conductivity (0-3000µS, 0-30mS, 0-300mS)
LDSETORB2 PLUS	Turbidity controller (0-40 NTU, 0-400 NTU, 0-4000 NTU)
LDSTRC PLUS	Digital tracer controller (0-1000ppm)
LDSFL PLUS	Digital fluoride controller (0-3ppm, 0-1000mV)
LDSDO PLUS	Digital DO controller (0-20mg/l)

Options:

mA Water Meter Input
Data logging to USB device
Remote control by Ethernet
Remote control by internal GSM/GPRS modem, SMS alert, email alert,
WIFI

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EMEC LD

Wall Mounted Controller

Standard Features:

- ABS IP65 Wall Mounted Controller
- Standby Input
- Flow Input
- PT100 Temperature Compensation
- Modbus
- On/Off, Pulse Width Proportional or Proportional Pulse Control
- Probe Cleaning Output
- Dosing Timer
- Data Storage with Internal Logging
- 5 Year Warranty*



Models:

Model	Function
LDSPH	Digital pH meter (0-14 pH)
LDSRH	Digital Redox (ORP) meter (0-1000mV)
LDSCCL	Free chlorine/bromine meter, hydrogen peroxide, ozone, peracetic acid. Range based on probe.
LDSCD	Digital conductivity controller (0-300µS, 0-3000µS, 0-30mS, 0-300mS)
LDSCDIND	Digital controller for inductive conductivity (0-3000µS, 0-30mS, 0-300mS)
LDSETORB2	Turbidity controller (0-40 NTU, 0-400 NTU, 0-4000 NTU)
LDSDO	Dissolved oxygen controller (0-20mg/l O ₂)
LDSTRC	Digital tracer controller (0-1000ppm)
LDSFL	Digital fluoride controller (0-3ppm, 0-1000mV)

Options:

Data logging to USB device
4-20mA signals out for measured value
Remote control by Ethernet. (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, Email alert
WIFI

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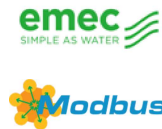
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EMEC LDLOG Chemical Usage Logging

Standard Features:

- ABS IP65 Wall Mounted
- For Monitoring Chemical Levels and Usage
- Easy Control by ENCODER Wheel
- Internal Storage with System Log
- 5 Year Warranty*



Models:

Model	Function
LDLOG	Data log system for chemical usage, by monitoring chemical pump output.
LDLOG mA	Data logging system for chemical usage, by monitoring tank levels. 4-20mA inputs for four tanks. Records and displays daily, weekly and monthly chemical consumption, plus quantity remaining in tanks.

Options:

Data logging to USB device
Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, email alert
MODBUS
WIFI

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EMEC LDSPN PLUS

pH Neutralisation Batch Controller

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Standard Features:

- Fill, Treat, Discharge
- ABS IP65 Wall Mounted Controller
- Easy Control by Encoder Wheel
- Flow Input
- Inlet Solenoid Valve Control
- Outlet Solenoid Valve Control
- Mixer Control
- 2 Way pH Pump Control
- Internal Data Storage with System Log
- 5 Year Warranty*

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Modbus



Models:

Model	Function
LDSPN PLUS	Digital pH Controller

Options:

Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, Email alert
WIFI

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EMEC BT Modules

Add on Modules for Remote Control



EMEC BT Modules can be added to any LD or WD Series Controller, to provide additional services and functions that are not built in.

Models:

Model	Function
BT CEL	External GSM modem for connection via the mobile network.
BT ETH	Ethernet module for connection via a computer LAN network.
BT USB	To allow logging to a USB memory stick.
BT WIFI	To allow for connection via a WIFI connection.
BT MODBUS	To allow communication between devices using MODBUS.
BT CEL 2IN	External GSM modem for 2 controllers to connect via the mobile network.

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EMEC J Digital Panel Mounted Controller

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Standard Features:

- 96 x 48mm Panel Mounted Measuring Instrument
- Backlit LCD Display
- Two On/Off or PWM Control Relays
- Flow Alarm
- 4-20mA Output for Measured Value
- NTC Temperature Compensation where relevant
- Probes Supplied Separately
- 5 Year Warranty*



Models:

Model	Function
J PH DIG	Digital pH meter (from 0-14 pH). Automatic temperature compensation.
J RH DIG	Digital Redox (ORP) meter (0-1000 mV).
J CL DIG	Digital Chlorine meter (Total chlorine, free chlorine, hydrogen peroxide, bromine, peracetic acid).
J CD DIG	Digital conductivity control (0-20 μ S, 0-200 μ S, 0-2000 μ S, 0-20mS, 0-200mS), automatic temperature compensation.
J OZONE DIG	Digital Ozone meter (0-1 or 0-10PPM).
J CLO2 DIG	Digital Chlorine Dioxide meter (0-2 or 0-20PPM).
J TEMP DIG	Digital Temperature meter (0-100 degrees C).

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EMEC DIN Digital

Din Rail Mounted Controller

Standard Features:

- Din Rail Mounted Measuring Instrument
- Backlit LCD Display
- Two On/Off or PWM Control Relays
- Flow Alarm
- 4-20mA Output for Measured Value
- NTC Temperature Compensation where relevant
- Probes Supplied Separately
- 5 Year Warranty*



Models:

Model	Function
DIN PH	Digital pH meter (from 0-14 pH). Automatic temperature compensation.
DIN RH	Digital Redox (ORP) meter (0-1000 mV).
DIN CL	Digital Chlorine meter (Total chlorine, free chlorine, hydrogen peroxide, bromine, peracetic acid).
DIN CD	Digital conductivity control (0-20, 0-200, 0-2000µS, 0-20, 0-200mS). Automatic temperature compensation.
DIN OZONE	Digital Ozone Controller (0-1mg/l or 0-10mg/l).
DIN CLO2	Digital Chlorine Dioxide Controller (0-2 or 0-20mg/l).
DIN TEMP	Digital Temperature Controller (0-100 degrees C).

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EMEC JA

Panel Mounted Controller

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Standard Features:

- 96x96mm Panel Mount
- Backlit LCD Display
- On/Off, Impulsive Proportional and PID Control
- 2 Setpoints
- Flow Alarm
- Flow Sensor
- Standby Input
- Alarm Output
- PT100 Temperature Compensation
- 4-20mA Output
- MODBUS Serial Communication
- Probes Supplied Separately
- 5 Year Warranty*



Models:

Model	Function
JA PH PRO	Digital pH meter (0-14 pH).
JA RH PRO	Digital Redox (ORP) meter (0-1000 mV).
JA CL PRO	Digital chlorine meter. Depending on probe selection: total chlorine, free chlorine, chlorine dioxide, hydrogen peroxide, ozone, bromine or peracetic acid.
JA CD PRO	Digital conductivity meter. Auto-ranging. Automatic temperature compensation.
JA CD IND PRO	Digital inductive conductivity control (0-3000µS, 0-300mS). Automatic temperature compensation.

Options:

12VDC, 24VDC, 110VAC, 230VAC, IP54 protection cover

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EMEC POOLBRAVO

Integrated Swimming Pool Controller

Standard Features:

- Turn Key Assembly for Managing Swimming Pools
- Weatherproof Wall Mounting Enclosure
- Integrated V Series Dosing Pumps
- Integrated Swimming Pool Controller
- Window to View Signalling Status and Alarms
- WIFI, 3G Or LAN Internet Options allowing Remote Configuration and Control via NIMBUS
- 5 Year Warranty*



Models:

Model	Function
POOLBRAVO PHCL1	POOL BRAVO with pH and open free chlorine cell, acid and chlorine pump.
POOLBRAVO PHCL2	POOL BRAVO with pH and closed free chlorine cell, acid and chlorine pump.
POOLBRAVO PHCL1 FLOC	POOL BRAVO with pH and open free chlorine cell, acid, chlorine and flocculant pump.
POOLBRAVO PHCL2 FLOC	POOL BRAVO with pH and closed free chlorine cell, acid, chlorine and flocculant pump.
POOLBRAVO PHCL1 ALG	POOL BRAVO with pH and open free chlorine cell, acid, chlorine and algicide pump.
POOLBRAVO PHCL2 ALG	POOL BRAVO with pH and closed free chlorine cell, acid, chlorine and algicide pump.

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pH Probes



pH Probe Model — EPH	
Single junction epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70°C. 12mm dia. Minimum conductivity 100µS.	
Applications	Potable water, swimming pools, laboratory use.
EPHS	1 meter cable and BNC connector
EPHM	4.5 meter cable and BNC connector
EPHL	15 meter cable and BNC connector



pH Probe Model — EPH/D	
Double junction epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70°C. 12mm dia. Minimum conductivity 100µS.	
Applications	As above plus wastewater, and medias containing proteins, silver or sulphides.
EPHM/D	4.5 meter cable and BNC connector
EPHL/D	15 meter cable and BNC connector



pH Probe Model — EPHMD/100	
Double junction epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 100°C. 12mm dia. Minimum conductivity 100µS.	
Applications	Wastewater e.g. electroplating, and medias containing proteins, silver or sulphides. Suitable for high temperature wastewater applications.
EPHMD/100	4.5 meter cable and BNC connector



pH Probe Model — EPHMD/LI	
Double junction epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70°C. 12mm dia. Minimum conductivity 3µS.	
Applications	Low Ionic (conductivity) applications.
EPHMD/LI	4.5 meter cable and BNC connector



pH Probe Model — EPHM/HF	
Epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70°C. 12mm dia. Minimum 100µS.	
Applications	Hydrogen fluoride resistant.
EPHM/HF	4.5 meter cable and BNC connector

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pH Probes



pH Probe Model — EPH SC

Epoxy shaft pH 0-14 probe . Max. pressure 7 bar at 70°C. 12mm dia. Minimum 100µS.

Applications	High solids wastewater, mount in flow path for self cleaning action.
EPHSC	Self cleaning, flat tip. 4.5 meter cable and BNC connector



pH Probe Model — EPH SN6 Range

Epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70°C. 12mm dia. Minimum 100µS.

Applications	High solids wastewater, mount in flow path for self cleaning action.
EPHSN6	PG13.5 mounting thread and SN6 connector
EPHM/D/SN6	Double junction. PG13.5 mounting thread and SN6 connector
EPHSC/SN6	Self cleaning, flat tip. PG13.5 mounting thread and SN6 connector



Accessories for ORP & pH Probe Installations

CASN6S	BNC/SN6 cable for ERHSN6 probe, 5m
CASN6M	BNC/SN6 cable for ERHSN6 probe, 10m
CASN6L	BNC/SN6 cable for ERHSN6 probe, 15m
GHIERA	PG13.5 threading nut for ORP probes, with O-ring

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Redox (ORP) Probes



Redox Probe Model — ERH

Single junction epoxy shaft Redox probe. Max. pressure 7 bar at 70°C. 12mm dia. 100µS minimum.

Applications	Potable water, swimming pools, laboratory use.
ERHS	With 1 meter cable and BNC connector
ERHM	With 4.5 meter cable and BNC connector
ERHL	With 15 meter cable and BNC connector



Redox Probe Model — ERH/D

Double junction epoxy shaft Redox probe. Max. pressure 7 bar at 70°C. 12mm dia. 100µS minimum.

Applications	As above plus low solids wastewater and medias containing proteins, silver or sulphides.
ERHM/D	With 4.5 meter cable and BNC connector
ERHL/D	With 15 meter cable and BNC connector



Redox Probe Model — ERHMD/100

Double junction epoxy shaft Redox probe. Max. pressure 7 bar at 100°C. 12mm dia. 100µS minimum.

Applications	As above plus low solids wastewater eg: electroplating, medias containing proteins, silver or sulphides. Suitable for high temperature wastewater applications.
ERHMD/100	With 4.5 meter cable and BNC connector



Redox Probe Model — ERH SC

Epoxy shaft Redox probe with flat end and self cleaning action. Max. pressure 7 bar at 70°C. 12mm dia. Minimum 100µS.

Applications	High solids wastewater, mount in flow path for self-cleaning action.
ERHSC	With 4.5 meter cable and BNC connector



Redox Probe Model — ERH SN6 Range

Epoxy shaft Redox probe. Max. pressure 7 bar at 70°C. 12mm dia. Minimum 100µS. PG13.5 mounting thread and SN6 connector.

Applications	Potable water, swimming pools, laboratory use, wastewater.
ERHSN6	With PG13.5 mounting thread and SN6 connector
ERHSC/SN6	Self Cleaning double junction version for wastewater
ERHHLB/SN6	For Low chlorine and pure water applications, glass shaft

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Chlorine Dioxide, Chlorine Probes



Chlorine Dioxide Probe Model — SCL2

Closed Amperometric Cell for Chlorine Dioxide measurement. Max. pressure 1 bar, max. temperature 40°C. Automatic temperature compensation.

Applications	Potable water, swimming pools, breweries, food processing.
SCL2/0.5	Range: 0-0.5mg/l
SCL2/2	Range: 0-2mg/l
SCL2/20	Range: 0-20mg/l

Chlorine Probe Model — SCL3

Closed Amperometric Chlorine Cell with pH compensation. Max. pressure 1 bar, max. temperature 40°C. Automatic temperature compensation.

Applications	Drinking water, swimming pools, laboratory use, industrial process water
SCL3S/20	Range: 0-20mg/l Free Chlorine (organic and inorganic) for freshwater
SCL3N/0.5	Range: 0-0.5mg/l Free Chlorine (inorganic) for freshwater
SCL3N/2	Range: 0-2 mg/l Free Chlorine (inorganic) for freshwater
SCL3N/20	Range: 0-20mg/l Free Chlorine (inorganic) for freshwater

Free Chlorine Probe Model — ECL6

Open Amperometric Free Chlorine Cell (organic and inorganic). Integral Flow rate control. Includes 2 x electrode holders for pH, Redox or temperature probe. With flow switch model SEPR. Up to 5 Bar at 40°C.

Applications	Potable water, swimming pools, laboratory use.
ECL6	Range: 0-10mg/l
ECL6/E	Budget version without additional electrode holders

Free Chlorine Probe Model — ECL7

Open Amperometric Free Chlorine Cell as ECL6, but manufactured to hold PG13.5 mounting versions of pH, Redox and temperature probes. Up to 5 Bar at 40°C.

Applications	Potable water, swimming pools, laboratory use.
ECL7	Range: 0-10mg/l

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Chlorine, Hydrogen Peroxide, Ozone & Peracetic Acid Probes



Total Chlorine Probe Model — SCL8

Amperometric Total Chlorine Cell (organic and inorganic). Max. pressure 1 bar, max. temperature 40°C. Automatic temperature compensation.

Applications	Potable water, swimming pools, laboratory use.
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SCL8/2	Range: 0-2 mg/l
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SCL8/20	Range: 0-20 mg/l
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Hydrogen Peroxide Probe Model — SCL9

Hydrogen Peroxide probe, max. temperature 40°C.

Applications	Potable water, industrial processes, laboratory use.
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SCL9/200	Ranges: 0-200 mg/l
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Ozone Probe Model — SCL10

Ozone Cell, Max. pressure 1bar, max. temperature 40°C. Temperature compensated.

Applications	Potable water, swimming pools, industrial processes, salt water.
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SCL10/2	Range: 0-2 mg/l
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SCL10/20	Range: 0-20 mg/l
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Peracetic Acid Probe Model — SCL11

Amperometric Peracetic Acid Cell. Max. pressure 1 bar, max. temperature 40°C. Automatic temperature compensation.

Applications	CIP systems.
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SCL 11/200	Range: 0-200 mg/l
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SCL 11/2000	Range: 0-2000 mg/l
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Chlorine Probe Model — ECL12

Amperometric Free Chlorine Cell for salt water applications as ECL6, manufactured to hold pH, Redox and temperature probes.

Applications	Salt water swimming pools.
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ECL12	Range: 0-10mg/l
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ECL12/E	Option - no additional probe mounting
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* Please refer to 'Aqua Products Limited' terms and conditions of sale for complete warranty conditions.

Chlorine, Chlorine Dioxide, Bromine, Chlorites & Potentiostatic Probes



Free Chlorine Probe Model — SCL18 : High Pressure

Closed Amperometric Free Chlorine Cell (inorganic) for use with Sodium Hypochlorite, Calcium Hypochlorite and chlorine gas applications. Max. pressure 8 bar, 5 -70°C. Automatic temperature compensation. Self-cleaning.

Applications	Potable water, industrial processes.
SCL18/0.5	Range: 0-0.5mg/l
SCL18/2	Range: 0-2 mg/l
SCL18/20	Range: 0-20 mg/l

Chlorine Dioxide Probe Model — SCL17 : High Pressure

Closed Amperometric cell for Chlorine Dioxide measurement. Max. pressure 8 bar, 5 -70°C. Automatic temperature compensation. Self cleaning.

Applications	Potable water, industrial processes.
SCL17/0.5	Range : 0-0.5mg/l
SCL17/2	Range: 0-2 mg/l
SCL17/20	Range: 0-20 mg/l

Bromine Probe Model — SBR/20

Closed Amperometric cell for Bromine measurement. Automatic temperature compensation. Max. pressure 0.5bar, max. temperature 40°C.

Applications	Potable water, industrial processes.
SBR/20	Range: 0-20 mg/l

Chlorite Probe Model — SCT/2

Closed Amperometric cell for Chlorites measurement. Automatic temperature compensation. Max. pressure 1bar, max. temperature 40°C.

Applications	Potable water, industrial processes.
SCT/2	Range: 0-2 mg/l

Potentiostatic Probe Model — EPS

Probe for measurement of Chlorine, Chlorine Dioxide, Ozone. -5 to 70°C, 16bar at 20.°C

Applications	Potable water, industrial processes, wastewater.
EPS	Range: 0-5 mg/l

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Chlorine Probe Spare Parts

10



Electrolyte for Amperometric Probes

Solution for Refilling new S Series Amperometric Probes.

ELESCL2	Electrolyte for SCL2
ELESCL	Electrolyte for SCL3S and ELECL8
ELESCL3N	Electrolyte for SCL3N
ELESCL9	Electrolyte for SCL9
ELESCL10	Electrolyte for SCL10
ELESCL11	Electrolyte for SCL11
ELESCL17	Electrolyte for SCL17
ELESCL18	Electrolyte for SCL18
ELESBR	Electrolyte for SBR
ELESCT	Electrolyte for SCT



Replacement Membrane Caps

Replacement Membrane Caps for S Series Amperometric Probes.

MESCL2	Spare membrane cap for SCL2 & SCL10
MESCL	Spare membrane cap for SCL3S and SCL8
MESCL3N	Spare membrane cap for SCL3N & SBR
MESCL9	Spare membrane cap for SCL9
MESCL11	Spare membrane cap for SCL11
MESCT	Spare membrane cap for SCT

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Measurement & Control

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Chlorine Probe Spare Parts



Electrolyte for Amperometric Probes

Solution for Refilling old E Series Amperometric Probes.

ELECL1	Electrolyte for ECL1
ELECL2	Electrolyte for ECL2
ELECL3N	Electrolyte for ECL3
ELECL3S	Electrolyte for ECL3S
ELECL17	Electrolyte for ECL17



Replacement Membrane Caps for E Series Probes

Replacement Membrane Caps for old E Series Amperometric Probes.

MECL1-2	Membrane cap for ECL1 and ECL2
MECL3	Membrane cap for ECL3



Replacement Electrodes

Replacement Electrodes for Open Amperometric Chlorine Cells.

ELE/PR	Platinum & Copper electrodes for cell ECL6/7
ELE12	Platinum & Silver electrodes for cell ECL12
ELE/P	Platinum electrode for ECL20 and ECL21
ELE/A	Silver electrode for ECL21
ELE/R	Copper electrode for ECL20
BIG2	Glass balls for ECL6/7/20/21 cells

Conductivity Probes

PVDF & Graphite



Conductivity Probe Model — ECDC

Conductivity probe with Graphite electrodes, PVDF body, 3/4 inch BSP thread, 4m cable, BNC plug, maximum pressure 7 bar at 60°C.

ECDC/1	K=1, maximum 20mS
ECDC/10	K=10, maximum 200mS
Options	Longer lead on request. 1/2" on request.



Conductivity Probe Model — ECDCC

Conductivity probe with Graphite electrodes, PVDF body, 3/4 inch BSP thread, 4m cable, BNC plug, maximum pressure 7 bar at 60°C, temperature compensation.

ECDCC/1	K=1, maximum 20mS, NTC10k temp sensor
ECDCCPT/1	K=1, maximum 20mS, PT100 temp sensor
ECDCC/10	K=10, maximum 200mS, NTC10k temp sensor
ECDCCPT/10	K=10, maximum 200mS, PT100 temp sensor
Options	Longer lead on request. 1/2" on request.



Conductivity Probe Model — ECDC IM

Conductivity probe, immersion style with Graphite electrodes, PVDF body, 1/2 inch BSP thread, 4m cable, BNC plug, maximum pressure 7 bar at 60°C.

ECDCIM/1	K=1, maximum 20mS
ECDCCIM/1	K=1, 0-20mS, NTC10k
ECDCCIMPT/1	K=1, 0-20mS, PT100
ECDCIM/10	K=10, 0-200mS
ECDCCIM/10	K=10, 0-200mS, NTC10
ECDCCIMPT/10	K=10, 0-200mS, PT100
Options	Temperature compensation. Longer lead on request. 1/2 inch on request.



Conductivity Probe Model — ECDC20

Conductivity probe, old type, for through wall installation, PVDF body, Graphite electrodes, 4m cable, BNC plug.

ECDC20	K=1, maximum 20mS, threaded with lock nut for through tank mounting
Options	Longer lead on request.

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Measurement & Control

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Conductivity Probes

PVDF & Stainless Steel



Conductivity Probe Model — ECDI

Conductivity probe with Stainless Steel electrodes, PVDF body, 3/4 inch BSP thread, 4m cable, BNC plug, maximum pressure 7 bar at 60°C. 100°C at 2 Bar.

ECDI/1	Range: 0-5mS
ECDI/01	Range: 0- 200µS
Options	Longer cable on request.



Conductivity Probe Model — ECDIC

Conductivity probe with Stainless Steel electrodes, PVDF body, 3/4 inch BSP thread, 4m cable, maximum pressure 7 bar at 60°C. 100°C at 2 Bar, temperature compensation.

ECDIC/1	Range: 0-5mS, NTC 10k temp sensor
ECDICPT/1	Range: 0-5mS, PT100 temp sensor
ECDIC/01	Range: 0- 200µS NTC 10k sensor
ECDICPT/01	Range: 0- 200µS PT 100 temp sensor
Options	Longer cable on request.



Conductivity Probe Model — ECDIIM

Conductivity probe immersion style with Stainless Steel electrodes, PVDF body, 3/4 inch or 1/2 inch BSP thread, 4m cable, maximum pressure 7bar at 60°C. 100°C at 2Bar.

ECDIIM/1	Range: 0-5mS
ECDIIM/01	Range: 0- 200µS
ECDICIM/1	Range: 0- 5mS, temperature compensation (NTC 10k)
ECDICIM/01	Range: 0- 200µS, temperature compensation (NTC 10k)
ECDICPTIM/1	Range: 0- 5mS, temperature compensation (PT100)
ECDICPTIM/01	Range: 0- 200µS, temperature compensation (PT100)
Options	High temperature version, longer cable on request.

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Conductivity Probes

Stainless Steel



Conductivity Probe Model — EICDC : Stainless Body

Conductivity probe with Stainless Steel electrodes, 3/4 inch BSP thread, 4m cable, maximum pressure 15 bar at 130°C, NTC 10k temperature compensation.

EICDC/1	Maximum 20mS
EICDC/01	Maximum 200µS
EICDC/001	Maximum 20µS
Options	Longer cable on request.



Conductivity Probe Model — EICDCPT : Stainless Body

Conductivity probe with Stainless Steel electrodes, 3/4 inch BSP thread, 4m cable, maximum pressure 15 bar at 130°C, PT100 temperature compensation.

EICDCPT/1	Maximum 20mS
EICDCPT/01	Maximum 200µS
EICDCPT/001	Maximum 20µS
Options	Longer cable on request.



Conductivity Probe Model — EICDHPT : Stainless Body

High temperature range conductivity probe with Stainless Steel electrodes, SS body, 3/4 inch BSP thread, 4m cable, BNC plug, maximum pressure 15 bar at 200°C, PT100 temperature compensation.

EICDHPT/1	Maximum 20mS
EICDHPT/01	Maximum 200µS
EICDHPT/001	Maximum 20µS
Options	Longer cable on request.

High Linearity Conductivity Probes



Conductivity Probe Model — ECDHL

Conductivity probe with platinum electrode, 12mm dia, 4.5m cable, maximum pressure 7 bar at 70°C.

ECDHL/01	K=0.1, maximum conductivity 200µS
ECDHL/1	K=1, maximum conductivity 20mS
ECDHL/10	K=10, maximum conductivity 200mS

Conductivity Probe Model — ECDHLC

High linearity conductivity probe with platinum electrode, 4.5m cable, maximum pressure 7 bar at 70°C , NTC10k temperature compensation.

ECDHLC/01	K=0.1, maximum conductivity 200µS
ECDHLC/1	K=1, maximum conductivity 20mS
ECDHLC/10	K=10, maximum conductivity 200mS

Conductivity Probe Model — ECDHLCPT

High linearity conductivity probe with platinum electrode, 4.5m cable, maximum pressure 7 bar at 70°C , PT100 temperature compensation.

ECDHLCPT/01	K=0.1, maximum conductivity 200µS
ECDHLCPT/1	K=1, maximum conductivity 20mS
ECDHLCPT/10	K=10, maximum conductivity 200mS



Inductive Conductivity Probe Model — ECD INDPT

All plastic construction, no metallic or conductive materials in contact with fluid, with PT100 temperature compensation, max pressure 8 bar, maximum temperature 85°C.

ECDINDPT	Range 0-3mS, 0-30mS, 0-300mS
ECDSINDPT	0-30mS (compact probe)

An enormous range of conductivity probes are available. There are too many to list.
Please enquire for assistance to choose a probe to suit your process.

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Miscellaneous Probes

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Temperature Probe Model — ETEP CH18	
High linearity temperature probe with PVDF body, 1/2 inch thread 0-100°C, 10 Bar, 1mV=0.1°C. 4m cable.	
ETEPC18	NTC10kohm sensor, ECL6 or PEF Holder
ETEPC18/L	NTC 10kohm sensor, NPED PEF22 or PEF23 Holder
ETEPTCH18	PT100 sensor, ECL6 or PEF Holder
ETEPTCH18/L	PT100 sensor, ECL6 or NPED or PEF22 or PEF23 Holder



Turbidity Sensor Model — ETORB40	
Off line Turbidity Sensor, max flow 40 lph, maximum pressure 0.5 bar.	
Applications	Swimming pools, potable water systems.
ETORB40	0-40 NTU



Turbidity Probe Model — ETORB2	
Turbidity probe with self cleaning function (by water injection), maximum pressure 2 bar at 40°C, internal temperature compensation, 5m cable.	
ETORB2	0-4000 NTU
ETORB2-IM	0-4000 NTU, 10m cable



Dissolved Oxygen Probe Model — EOLUM	
Dissolved Oxygen probe with fluorescence membrane, maximum pressure 10 bar, -5-50°C, temperature compensation (PT100), 15m cable.	
EOLUM	0-20 mg/l O ₂



Fluoride Probe Model — EFL	
Ion selective probe (ISE) for Fluoride (F-), maximum pressure 1 bar, 0-60°C, pH range 5-7, 1m cable.	
EFL	0-3 PPM



Tracer Probe Model — ETRC	
Tracer probe, PVC body, 4-20mA output, 0-50°C, 7 Bar, 0.8m cable.	
ETRC	Dynamic range 0-300 ppb



Corrosion Probe Model — ECORR	
Corrosion probe, SS body, RS485 output, 0-50°C, 7 Bar.	
ECORR	Range 0.001-10MPY

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Section 10

Measurement & Control

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Probe Holders



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In-Line Probe Holder

For insertion into threaded connection in pipe work.

PEA/CH28	For 12mm epoxy shaft electrodes 1/2 inch BSP thread, suitable for max 90°C at 7bar or 130°C at 3bar, PVDF, short.
PEA/SN6	For 12mm epoxy shaft electrodes with PG13.5 mounting. 1/2 inch BSP thread, suitable for max 90°C 7bar, PVDF, short.
PEL	For 12mm epoxy shaft electrodes. 1/2inch BSP thread, PVDF, long.
PEL/SN6	For 12mm epoxy shaft electrodes with PG13.5 mounting. 1/2 inch BSP probes with PG13.5 mounting thread.
PEB	For 12mm epoxy shaft electrodes 3/4 inch BSP thread, suitable for max. 40°C at 7bar, polypropylene, short.
PEL-E	For ETORBH or EOLUM probe, PVC.
PEL-IND <i>Options:</i>	For ECDINDPT probe, max 40°C, 7bar, PVDF. <i>PEL-IND 40, 50mm (T connection)</i> <i>PEL-IND 63, 75, 90, 110, 125, 160 mm (saddle connection)</i>
PEL-INDC	For ECDINDPT probe, max 80°C, 7bar, CPVC.
PEL-IND-SS	For ECDINDPT probe, max 80°C, 7bar, SS.
PELS-IND	For ECDSINDPT probe, max 40°C, 7bar, PVC.

Immersion Probe Holder — PVC 1m Long

PEC	For 1 electrode 12mm dia. (eg type EPH), max 80°C, PP.
PEC/SN6	For 1 electrode with PG13.5 mounting thread, max 80°C, PP.
PEC/IM	For 1 conductivity electrode 3/4 inch thread, max 80°C, PP.
PECAP/SN6	As PEC/SN6 with compressed air or water self cleaning system, max 40°C, PP/PVC.
PEC2	For 2 x 12mm PG13.5 electrodes, max 40°C, PVC.
PECAP2	With compressed air or water self cleaning, max 40°C, PVC.
PECAP-E	For EOLUM self cleaning system, max 40°C, PVC.
PEC-E	For EOLUM, max 80°C, PP.
PEC-IND	For ECDINDPT, max 40°C, PVC.
PEC-E2	For ETORB2, max 40°C, PVC.
108.6173.1	PVC fixing flange for PEC/PECIM, 100mm.
108.2205.1	PVC fixing flange for PEC-E or PECAP, 100mm.
108.2231.1	PP fixing flange for PEC-IND.

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Off-Line Probe Housings

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Off-Line Probe Housing Model — NPED

Off-line probe housing, maximum pressure 5 bar, maximum temperature 40°C. Fittings - 6x8mm.

NPED1	For 2 x probes with PG13.5 mounting thread
NPED2	For 2 x 12mm diameter probes. e.g. type EPHM/D
NPED3	For 2 x 12mm diameter probes plus 1x 3/4 inch BSP probe
NPED4	For 2 x 12mm probes, with integral flow sensor
NPED4/2F	For 2 x 12 mm epoxy probes with 2 wires for sensor
NPED4-1/2	As NPED3, with integral flow sensor plus 1/2 inch thread
NPED5	For 2 x probes plus 1/2 inch electrode
NPED-E2	For ETORB2
NPED-E	For EOLUM probe
NPED-IND	For ECDINDPT inductive conductivity probe
NPED-IND-PVDF	For ECDINDPT inductive conductivity probe PVDF
NPED-INDS	For ECDINDSPT inductive conductivity probe
NPED4-INDS	For ECDINDSPT inductive conductivity probe with integral flow sensor

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Off-Line Probe Housings



Off-Line Probe Housing Model — PEF For Closed Amperometric Cells

Off-line probe housing to suit closed type chlorine probe. Maximum pressure 5 bar, maximum temperature 50°C. PMMA body with 6x8 PVDF fittings and 4m PE hose.

PEF1R	For 2 x 12mm diameter probes, 1 temperature probe and 1 x chlorine probe e.g. type SCL, with SEPR flow switch.
PEF1R/E	For 1 x chlorine probe e.g. type SCL, and 1 temperature probe with SEPR flow switch.
PEF5R	For 2 probes with PG13 mounting threads, 1 temperature probe and 1 x chlorine probe e.g. type SCL, with SEPR flow switch.
PEF2	For 2 x 12mm diameter probes and 1 temperature probe, with SEPR flow switch.
PEF3	For 2 x probes with PG13 mounting threads and 1 temperature probe, with SEPR flow switch.
PEF22R	For 2 x 12mm diameter probes, 1 temperature probe and 2 chlorine probes e.g. type SCL, with SEPR flow switch.
PEF23R	For 2 x 12mm diameter probes, 1 temperature probe and 1 chlorine probe e.g. type SCL and 1 conductivity probe 3/4 inch thread, with SEPR flow switch.
PEF24R	For 1 fluoride electrode with flow switch.
PEF26R	For 1 chlorine probe e.g. type SCL and 1 fluoride probe with flow switch.
PEF27R	For 1 chlorine probe e.g. type SCL and 1 conductivity probe 3/4 inch thread with flow switch.
Options	Integral anti-siphon valve, high temperature option. Alternative tube materials on request.

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Cooling Tower Accessories

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Multi Function Probe Holder	
MANIFOLD/E/3	Probe holder for 3/4 inch conductivity probe, with flow sensor and sample port. 3/4 inch water inlet. PMMA.
MANIFOLD/E/1	Probe holder for 3/4 inch conductivity probe, with flow sensor and sample port. 1 inch water inlet. PMMA.
MANIFOLD/3	Probe holder for conductivity probe, with flow sensor, sample port and two injection points. 3/4 inch water inlet. PMMA.
MANIFOLD/1	Probe holder for conductivity probe, with flow sensor, sample port and two injection points. 1 inch water inlet. PMMA.
MANIFOLD PLUS/3	Probe holder for conductivity probe plus 2 x 12mm dia. probes, with flow sensor and sample port. 3/4 inch water inlet. PMMA.
MANIFOLD PLUS/1	Probe holder for conductivity probe plus 2 x 12mm dia. probes, with flow sensor and sample port. 1 inch water inlet. PMMA.
MAPLTR	Probe holder for tracer probe plus 2 x 12 mm dia. electrodes with flow sensor PVC.
MAPLTRE	Probe holder for tracer probe and ECDCC plus 2 x 12mm dia. electrodes PVC.



Manifold Flow Sensor Spares	
SF/BNC	Manifold flow sensor with BNC connection.
SEPR	Manifold inductive flow sensor for probe housing and open amperometric cells.

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Section 10

Measurement & Control

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NIMBUS

Remote Monitor and Manage

YOUR SCADA or BMS



MODBUS

Modbus



ALARMS



GPRS



LAN

WIFI

CONTROL



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ERMES Communication software2.csv - Microsoft Excel							
	A	B	C	D	E	F	G
1	Date	pH	mV	Cl2	uS	NTU	Temperature
2	17/08/2015 0:00	5.13	131	0.001	1	0	25.3
3	16/08/2015 23:52	5.13	131	0.001	1	0	25.3
4	16/08/2015 23:32	5.13	131	0.001	2	0	25.3
5	16/08/2015 23:12	5.13	131	0.001	1	0	25.3
6	16/08/2015 22:52	5.13	131	0.001	1	0	25.3
7	16/08/2015 22:32	5.13	131	0.001	1	0	25.3
8	16/08/2015 22:12	5.13	131	0.001	1	0	25.3
9	16/08/2015 21:52	5.13	131	0.001	1	0	25.3
10	16/08/2015 21:32	5.13	131	0.001	1	0	25.3
11	16/08/2015 21:12	5.13	131	0.001	1	0	25.3

NIMBUS by emec



NIMBUS

PROBES

pH

ORP

Chlorine

Chlorine Dioxide

Peracetic Acid

Ozone

Hydrogen Peroxide

Turbidity

Tracers

Flow

Tank Level

- Display
- Control
- Log
- Alarm

NIMBUS Cloud based Monitoring and Control is a free service supplied and maintained by EMEC

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