

Certikin



DOSING EQUIPMENT CATALOGUE

Certikin's Quality Statement

It is the policy of Certikin to provide products and services which give total customer satisfaction.

The aims and objectives of the company are:

- To place safety and quality first in everything
- To fully understand our suppliers and customers' needs and expectations and to supply precisely the products and services agreed.
- To involve all staff, utilising their skills and abilities to the full, in support of our quality policy.
- To set ourselves a target of annual improvement, based on the simple but fundamental principle of 'do it right first time'.

Neil Murray, Managing Director

Dosing pumps

CDE-FCO - Manual pump with stroke speed adjustment



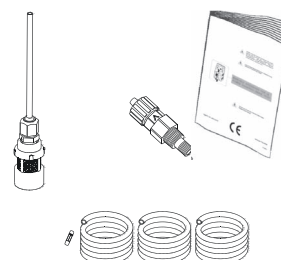
ALSO AVAILABLE

CDE-FCOS

Pump with manual stroke frequency adjustment suitable for essence dosing.
Pump constructed to reduce sound output.

Pressure <i>bar</i>	Flow <i>l/h</i>
5	5
3	6,5

ACCESSORY KITS



n. 1	Fuse
n. 1	Foot filter with valve
n. 1	Injection valve
m. 2	Delivery pipe
m. 2	Suction pipe
m. 2	Discharge pipe
n. 1	Installation manual

ACCESSORY KITS are included with ALL chemical dosing pumps.

Dosing pumps

CDE-VCL - Manual pump with stroke speed adjustment and level control



Pressure <i>bar</i>	Flow <i>l/h</i>
5	1
10	4
3	10
2	17

Available with autodegassing
(self venting) pump heads

Pressure <i>bar</i>	Flow <i>l/h</i>
7	4
2	13
1	13,5

ALSO AVAILABLE

CDE-VCLG

Metering pump for flocculant with double measurement scale (24h) with level probe.

From 0 to 300 gr/day
From 0 to 3000 gr/day

CDE-VMS EN

Metering pump for algicide with - weekly timer, microprocessor digital controls, LCD display and level probe.

CDE-VMS PH

Proportional pump driven by internal built-in pH meter (0÷14pH) and level control, supplied without pH probe.

CDE-VMS RH

Proportional pump driven by internal built-in ORP (ORP) meter (0÷1000mV) and level control, supplied without ORP probe.

CDE-KCL - Manual pump with stroke length and stroke speed adjustment with level control



Pressure <i>bar</i>	Flow <i>l/h</i>
2	18
5	10
20	01

Available with autodegassing
(self venting) pump heads

Pressure <i>bar</i>	Flow <i>l/h</i>
2	13
5	7,5
20	0,5

ALSO AVAILABLE

CDE-KIS

Proportional pump driven by external digital signal, with level control: to each external pulse corresponds one pump injection.

CDE-KIC

Proportional pump driven by current signal (0-4mA=0pulses; 20mA=max pulses) and level control.

CDE-KMS PH

Proportional pump driven by internal built-in pH meter (0÷14pH) and level control, supplied without pH probe.

CDE-KMS RH

Proportional pump driven by internal built-in ORP (ORP) meter (0÷1000mV) and level control, supplied without ORP probe.

Dosing pumps

MULTI CHEMICAL MEASUREMENT AND CONTROL

CDE-WDPHCL CDE-WDPHRH



pH & Chlorine pH & Redox (ORP)

Swimming pool controller with 2 metering pumps.

Ranges: 0-14 pH and 0-10 mg/l Cl_2 . Chlorine probe to specify at order. Controller settings by wheel. LCD backlight display.

Ranges: 0-14 pH and 0-1000 mV. Controller settings by wheel. LCD backlight display.

Alarm output, max dosing time alarm, probe check-up, pH priority dosing. Liquid ends in PVDF.

Pressure
bar

5
3

Flow
l/h

1
10

CDE-WDPHRHS CDE-WDPHCLS CDE-WDPHBS



pH / Redox (ORP)

Swimming pool controller with one metering pump for acid (pH) and one 230VAC output driven by Redox (ORP) for salt generator or dry feeder.

pH / Cl

Swimming pool controller with one metering pump for acid (pH) and one 230VAC output driven by Chlorine for salt generator or dry feeder.

pH / Br

Swimming pool controller with one metering pump for acid (pH) and one 230VAC output driven by bromine for dry feeder (brominator). Liquid ends in PVDF.

Section pH / Redox

Pressure
bar

5
3

Flow
l/h

1
10

Solenoid Valve
VAC

230

Consumption

A
10

CDE-WPHRHC



pH Redox (ORP) with calculated Chlorine (ppm) display

Swimming pool controller with 2 metering pumps.

Ranges: 0-14 pH and 0-1000 mV. Adjustment using keypad. LCD backlight display.

Alarm output, max dosing time alarm, probe check-up, pH priority dosing. Liquid ends in PVDF.

Pressure
bar

5
3

Flow
l/h

1
10

Probes specified at point of order.

Multi parameter controllers

5-CHANNEL



CDE-MAX5

(pH / Total chlorine / Free chlorine / Combined chlorine / Redox / °C / Turbidity / Conductivity)

MAX5 is a multiple digital controller system. It reads and controls up to 5 channels that can be programmed to control pH - ORP - Chlorine - Turbidity - Temperature - Total Chlorine.

pH: from 0 to 14 pH
ORP (Redox): from 0 to 1000 mV
Total Chlorine: from 0 to 10 mg/l
Free Chlorine: from 0 to 10 mg/l
Combined Chlorine: from 0 to 10 mg/l
Turbidity: from 0 to 30 NTU
Temperature: from 0 to 100 °C
Conductivity: from 0 to 300 mS

2-CHANNEL



CDE-LDPHxx Series Digital Controllers

Digital controller with microprocessor and LCD backlight display. Using a revolutionary wheel the controller can be easily programmed.

3 proportional setpoints and 2 proportional On/Off or timed (PWM) setpoints. Stand-by input and max dosing time alarm. CHLORINE / BROMINE selector. Alarm for probe failure. General alarm output.

CDE-LDPHRH pH (0÷14) - ORP (0÷1000mV) - °C (0÷99,9)

CDE-LDPHCL* pH (0÷14) - Chlorine (0÷10 mg/l Cl₂)* - °C (0÷99,9)

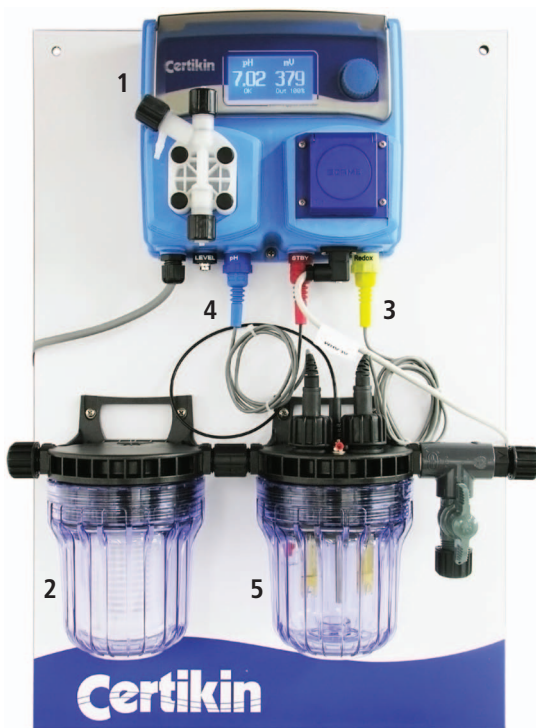
CDE-LDPHO2 pH (0÷14) - O₂ (0÷200 mg/l H₂O₂) - °C (0÷99,9)

CDE-LDPRC pH (0÷14) - Chlorine (0÷10 mg/l Cl₂) - °C (0÷99,9) and ORP only reading (0÷1000mV)

Board mounted equipment

FOR DOMESTIC & COMMERCIAL FEEDER APPLICATIONS

CDE-PA- WDPHEV

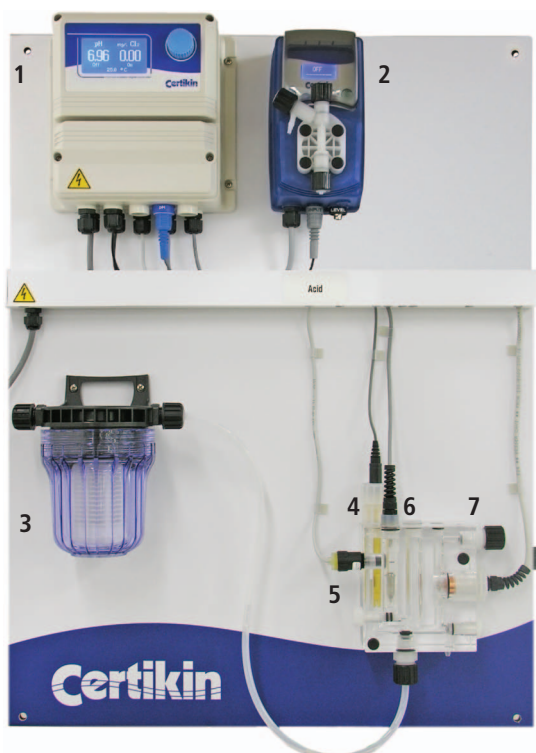


**For pH and ORP control.
Salt chlorine generator or dry
feeder (brominator) output.**

1. Controller WDPHRHS
2. NFIL Filter
3. Probe Redox ERHS
4. Probe pH EPHS
5. Probe Holder NPED4

Dimensions: 400x600 mm

CDE-PA- LDPHCLV



**pH correction & free chlorine/
bromine proportional control of
a dry feeder (Chlorine/Bromine)
output**

1. Controller
2. Dosing Pump
3. NFIL Filter
4. Probe pH EPHS
5. Proximity switch SEPR
6. Temperature probe ETEPT
7. Chlorine probe either:
> ECL6 (as pictured) or
> ECL3S/10

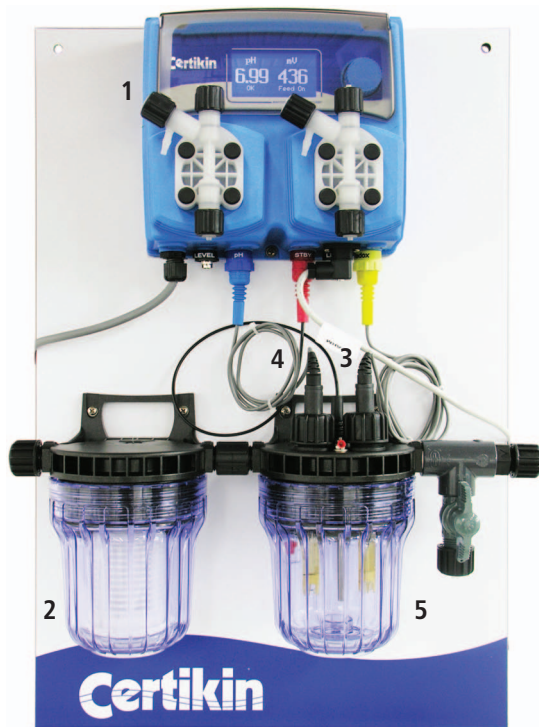
See page 13 for more information on chlorine probes.

Dimensions: 600x800 mm

Board mounted equipment

FOR DOMESTIC & LIGHT COMMERCIAL APPLICATIONS

CDE-PA- WDPHRH

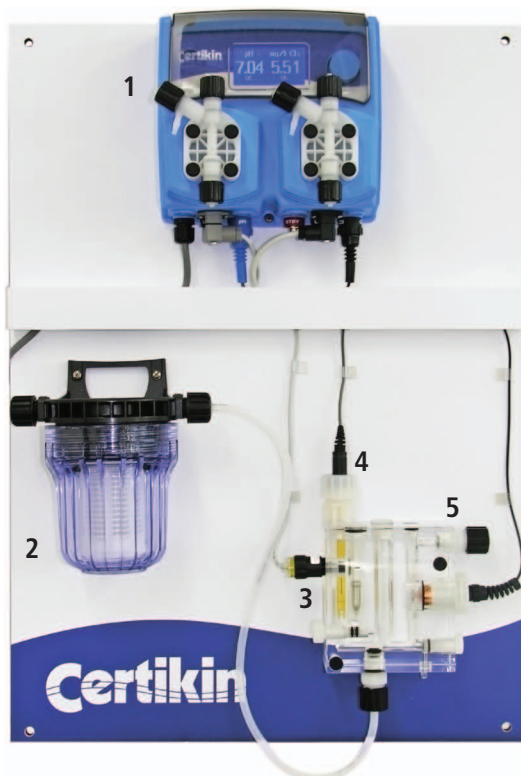


For pH and Redox control.

1. Controller WDPHRH
2. NFIL Filter
3. Probe Redox ERHS
4. Probe pH EPHS
5. Probe Holder NPED4

Dimensions: 400x600 mm

CDE-PA- WDPHCL



For pH and Chlorine control

1. Controller WDPHCL
2. NFIL Filter
3. Proximity switch SEPR
4. Probe pH EPHS
5. Chlorine probe either:
> ECL6 (as pictured) or
> ECL3S/10

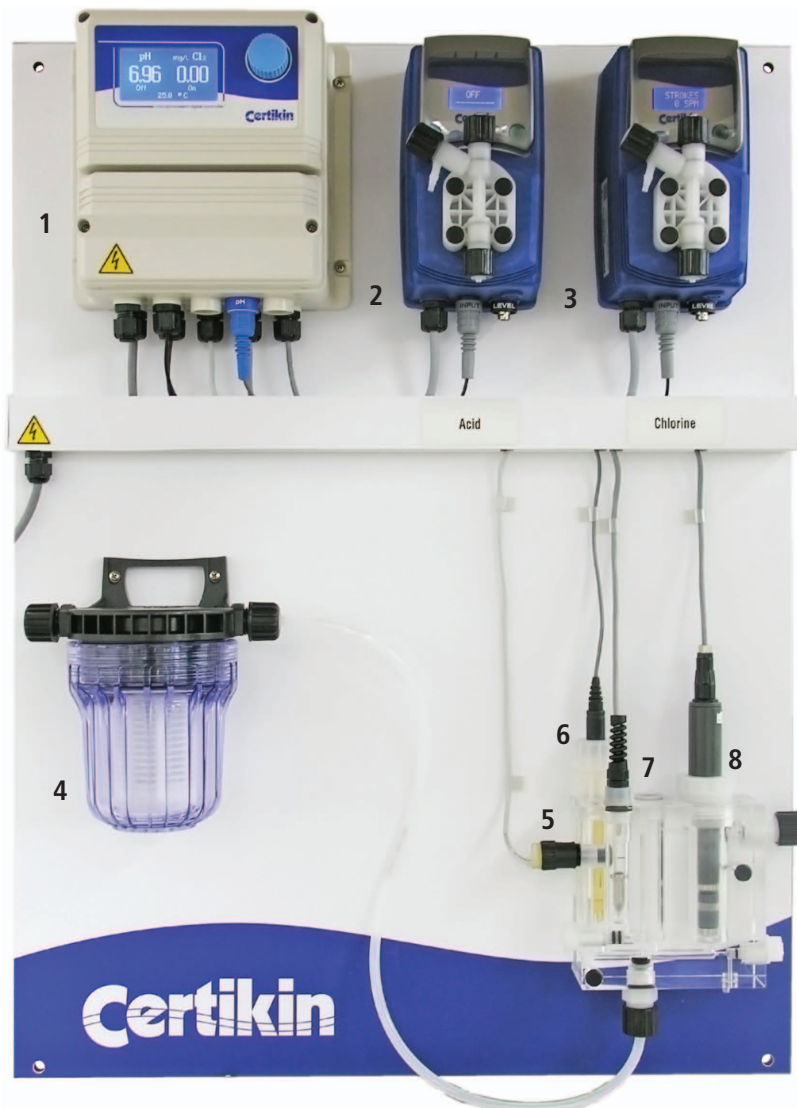
See page 13 for more information on chlorine probes.

Dimensions: 500x700 mm

Control and dosing

FOR COMMERCIAL APPLICATIONS

CDE-PA- LDPHCLVD



**For pH and chlorine proportional control.
Medium size swimming pools.**

1. Controller LDPHCL
2. Dosing Pump acid VMS MF 03 10 (10 l/h)
3. Dosing Pump chlorine VMS MF 02 17 (17 l/h)
4. NFIL Filter
5. Proximity sensor SEPR
6. Probe pH EPHS
7. Temperature probe ETEPT
8. Chlorine Probe - either:
 - > ECL6
 - > ECL3S/10

See page 13 for more information on chlorine probes.

Dimensions: 600x800 mm

Control and dosing

FOR HEAVY COMMERCIAL APPLICATIONS

CDE-PA-M5DB

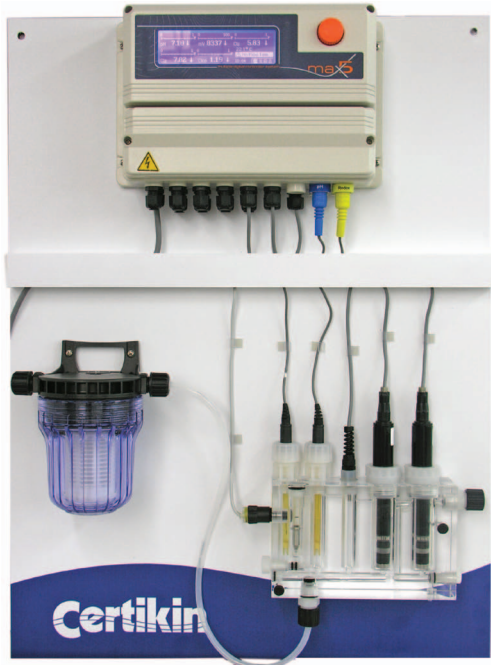


For pH, ORP, Free chlorine, Total Chlorine, Combined chlorine, Temperature, Flocculant and Algicide.

- | | |
|--|----------------------------------|
| 1. Multiparameters controller MAX5 (pH, Cl, Clt, T°) | 8. Probe Redox ERHS |
| 2. Dosing Pump acid VMS MF 03 10 | 9. Temperature probe ETEPT |
| 3. Dosing Pump chlorine VMS MF 02 17 | 10. Probe free chlorine ECL3S/10 |
| 4. Dosing Pump flocculant VCLG | 11. Probe chlorine ECL8/10 |
| 5. Dosing Pump algicide VMS EN 07 06 | 12. Proximity sensor SEPR |
| 6. NFIL Filter | 13. Probes holder PEF22 |
| 7. Probe pH EPHS | |

Dimensions: 1000x800 mm

Commercial systems



Control board

1. Controller(s) from our range
2. NFIL Filter
3. Probes and probe holder from our range

All panel mounted to suit your specification.



Pump board

Panel mounted board. Dosing pumps selected from wall mount range. Board shown includes multifunction valves which offer:

1. Pressure Relief
2. Pressure Sustaining
3. Syphon/Bleed



Tank Set

Foot mounted dosing pump and electronic agitator mounted on chemical dosing tank which can be banded to prevent chemical spillage.

Various dosing tank and bund sizes available.

Worldwide Control System

LAN - GPRS/GSM - WEBSERVER WITH HOSTING SERVICE

"ERMES" - COMMUNICATION SOFTWARE

Upto 30 controllers can be linked in a localised network using a RS485 protocol. Using ERMES software, you can monitor and manipulate each controller remotely.

WAYS TO CONNECT

LOCAL control

All controllers, par the CDE-LD multichannel controllers can be fitted with a USB port for direct connection to the PC.

CDE-LD multichannel controllers can be connected using a RS485-USB converter.

For local control please select USB Basic. To allow data download directly from the controller to a USB memory stick, please choose USB advanced

ETHERNET control

Controller is fitted with an internal network point (Cat5e). Users can connect to the controller through a local network and the internet.

REMOTE control

Controller is fitted with an internal GPRS modem. Using a compatible mobile SIM card (sold separatley) it can be used to connect to the controller remotely over the internet.

ERMES is capable of sending SMS alerts to upto 4 pre-programmed numbers or upto 4 email addresses for alarms. Users can also text the controller to receive up to date readings from the controller

A summary of the available options is shown in the table below:

	RS485 comm	USB* comm	ETHERNET module	MODEM module	USB 2.0 module DATA LOG
BASIC configuration	•	•			
ADVANCED USB configuration	•	•			•
ETHERNET configuration	•	•	•		
GSM/GPRS configuration	•	•		•	

* Not available on LD Multichannel Series.

Points to consider before ordering:

- It is possible to retrofit communication modules to existing controllers.
- Modules can be installed internally or externally to suit
- Use of GSM/GPRS modem is dependant on mobile data signal. An external modem maybe required where signal strength is low.
- Ethernet connection requires direct, wired, connection to a local network. A system administrator will be required to configure firewall access etc.
- It is possible to piggy back multiple controllers -- i.e. controllers wired, via RS485, into a controller with a GSM modem may also be connected to over the internet

Worldwide Control System

LAN - GPRS/GSM - WEBSERVER WITH HOSTING SERVICE

FEATURES

Standard configurations features are described in the table below:

	RS485 net ⁽¹⁾	USB comm service ⁽²⁾	EMAIL alert service ⁽³⁾	HTTP remote service ⁽⁴⁾	SMS alert service ⁽⁵⁾	USB data log ⁽⁶⁾
BASIC configuration	•	•				
ADVANCED USB configuration	•	•				•
ETHERNET configuration	•	•	•	•		
GSM/GPRS configuration	•	•	•	•	•	

- (1) RS485 net: RS485 port for connecting instruments to network or to a PC using a converter
- (2) USB comm service: direct PC/instrument link using USB
- (3) EMAIL alert service: email multi-level alert messages using standard pop protocol
- (4) HTTP remote service: instruments configuration using a standard browser
- (5) SMS alert service: SMS multi-level alert messages using standard Short Message Service protocol
- (6) USB data log: instrument data activity recorded on standard USB pen-drive

ERMES softward allows users to control and program controllers in many different ways:

Connection using a RS485 network and USB or RS485 cable.

This connection enables the user to control one or more instruments directly connected to a PC.

Connection using a RS485 network and GSM modem or RS485 cable.

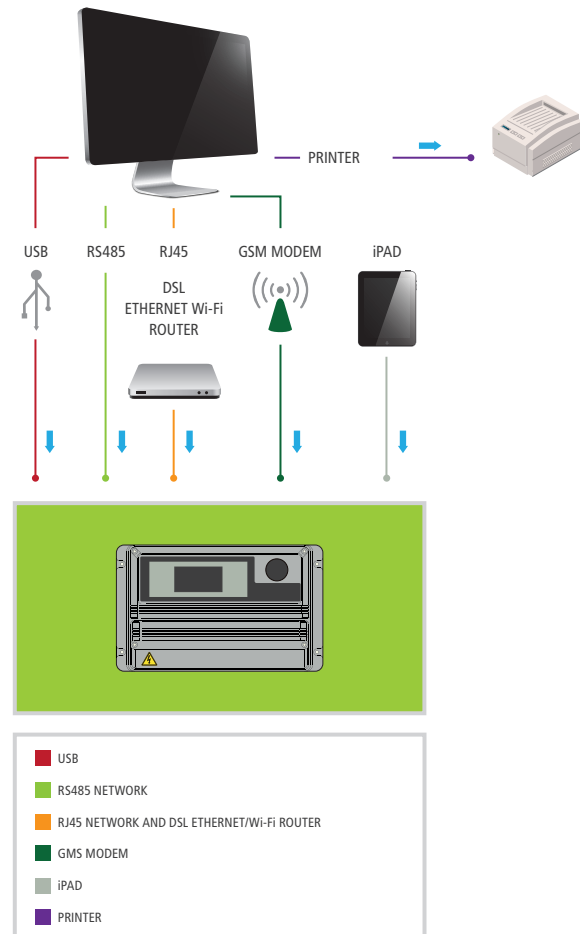
This connection enables the user to control one or more instruments from anywhere in the world via a standard Internet connection and a data SIM card.

Connection using a RS485 network and ETHERNET router.

This connection enables the user to control one or more instruments within a LAN (Local Area Network).

Connection using a RS485 network and WIFI router.

This connection enables the user to control one or more instruments using wireless technology as on notebooks.



Accessories



CDE-EPHS

pH electrode for pressures up to 7bar/
70°C (3.5bar/80°C).
0.8m cable. Epoxy body.
Minimum 100µS.



CDE-ERHS

ORP electrode for pressures up to
7bar/70°C (3.5bar/80°C).
0.8m cable. Epoxy body.
Minimum 100µS.



BUFFER SOLUTIONS

Buffer solutions for probe calibration.



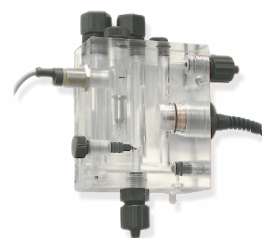
CDE-ECL8

Total chlorine amperometric cell (organic and inorganic),
from 0 to 2 mg/l ; from 0 to 20 mg/l, pH and temperature
compensated.



CDE-ECL3S/10

Free chlorine amperometric cell (organic and inorganic),
from 0 to 10 mg/l, pH and temperature compensated.



CDE-ECL6 - ECL12

Free chlorine / bromine amperometric cell
(organic and inorganic), from 0 to 10 mg/l.
Flow switch and flow adjustment.
Electrode holder for pH, Redox and temperature.
With proximity switch mod. SEPR. 6x8 fittings.



CDE-ETEPT

Temperature probe (0°C÷100 °C, max 10bar).

Accessories



CDE-NFIL CA

5" filter with carbon activated filter cartridge. 6x8 fittings.



CDE-NFIL

Filter with cartridge. Washable. PET (60 µ). 6x8 fittings.



CDE-NPED4

Off-line electrode holder for EPH, ERH electrodes. Temperature max 50° C, max pressure 5bar with flow sensor with N.O. contact. 6x8 fittings.



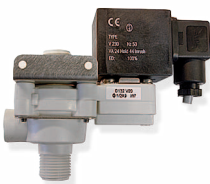
CDE-PEF22

Free, total chlorine, pH, ORP and Temperature probes holder with flow switch and flow adjustment. 6x8 fittings. Best for MAX5 digital controller.



CDE-PEF1

Off-line electrode holder for ECL1/2/3/8/9/10/11 and pH, Redox and temperature, with flow switch and flow regulation. With proximity switch mod. SEPR. 6X8 fittings.



CDE-EVLA

Solenoid valve for dry feeder. 1/2" fitting.



CDE-PELC

PVDF in-line electrode holder for pH / Redox electrodes with 1/2" or 3/4" thread. For saddle connection.



CDE-PEL

PVDF in-line electrode holder for pH / Redox electrodes with 1/2" or 3/4" thread. For "T" connection.

Accessories



CDE-MIXV/8

High speed mixer
1400 RPM.
AISI shaft-PVC coated,
length available: 630
mm.
Marine impeller,
diameter 70 mm.



CDE-MIX/8

Low speed mixer
65/200/400 RPM.
AISI shaft-PVC coated,
different lengths
available
(630-730-980 mm).
3-blade impeller,
diameter 150 mm.



CDE-MIX/MAN

Manual mixer.
PVC shaft,
length available: 390 mm.
Impeller diameter 90 mm.



CDE-LASP/x

Suction lances
with level control,
for tanks up to
25 litres (suitable for
carboys).

CDE-LASP1/x

Suction lances
with level control,
for tanks up to
1000 litres.



CDE-LINIR

1/2" injection lance for dosing sodium
hypochlorite in hard water. PVDF body.
Viton® or EPDM o-ring. Ball valve.



CHEMICAL TANKS & SAFETY BUNDS

Polyethylene, anti-UV for chemicals. Complete chemical
tanks with safety bunds.



INJECTION VALVE 1/2"

Injection valve (PVDF).



LEVEL PROBE

Level probe with foot filter and BNC
connector (full natural PVDF).



MF MULTIFUNCTIONS VALVE

Multifunction valve (pressure, safety,
antisiphon and bleed) 1/2" connections
for different hose diameters. Pressure
range adjustable from 1 to 5 bar for
pressure valve operating mode, from
1 to 18 bar for safety valve operating
mode. Discharge connection
3/8" 4x6. Viton® or EPDM o-ring.
PVDF body.

Notes



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