Certikin’s Quality Statement

It is the policy of Certikin International Ltd 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**

<table>
<thead>
<tr>
<th>Pressure</th>
<th>Flow</th>
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<tr>
<td>bar</td>
<td>l/h</td>
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**ACCESSORY KITS**

- n. 1 Fuse
- n. 1 Foot filter with valve
- n. 1 Injection valve
- m. 2 Delivery pipe (PVDF)
- m. 2 Suction pipe (transparent PVC)
- m. 2 Discharge pipe (transparent PVC)
- 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

<table>
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<td>10</td>
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<td>2</td>
<td>17</td>
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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 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-VMS EN
Metering pump for algicide with weekly timer, microprocessor digital controls, LCD dispaly and level probe.
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.

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.

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Dosing pumps
Multi chemical measurement and control

**CDE-WDPHCL**

**pH & Chlorine**
Swimming pool controller with 2 metering pumps for acid (pH) and chlorine (Cl).
Ranges: 0-14 pH and 0-10 mg/l Cl₂.
Chlorine probe to specify at order. Controller settings by wheel. LCD backlight display.
Alarm output, max dosing time alarm, probe check-up, pH priority dosing. Liquid ends in PVDF.

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**CDE-WDPHRH**

**pH & Redox (ORP)**
Swimming pool controller with 2 metering pumps for acid (pH) and disinfectant (ORP).
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.

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**CDE-WDPHRHS**

**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.

Probes to specify at 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 timered (PWM) setpoints.

- **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-LDPO2** 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)

**CDE-LPHRHC**
Digital controller for pH and Redox (ORP) measure and pH and Calculated Free Chlorine control.

LCD backlight display. Two programmable on/off or digital proportional outputs, feed limit alarm (max dosing alarm), programmable delay at power on for probe polarisation, stand-by for no flow interlock, On/Off Set Points and proportional timer (PWM), high and low alarm.

- 0-14 pH scale; 0-1000 mV scale; 0-2.5 mg/l Cl2 scale
- Working range for Calculated Free Chlorine: 6.8-8.00 pH and 500-800 mV

Probes to specify at order.
**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 or
   - > ECL3S/10

See page 12 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 or
   > ECL3S/10

See page 12 for more information on chlorine probes.

Dimensions: 500x700 mm
Control and dosing
FOR COMMERCIAL APPLICATIONS

CDE-PA- LDPHCLO

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
   > ECL35/10

See page 12 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°)
2. Dosing Pump acid VMS MF 03 10
3. Dosing Pump chlorine VMS MF 02 17
4. Dosing Pump flocculant VCLG
5. Dosing Pump algicide VMS EN 07 06
6. NFIL Filter
7. Probe pH EPHS
8. Probe Redox ERHS
9. Temperature probe ETEPT
10. Probe free chlorine ECL3S/10
11. Probe chlorine ECL8/10
12. Proximity sensor SEPR
13. Probes holder PEF22

Dimensions: 1000x800 mm
Commercial systems

**Tank Set**

Foot mounted dosing pump and electronic agitator mounted on chemical dosing tank which is bunded to prevent chemical spillage.

Various dosing tank and bund sizes available.

**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
CDE-MAX5

CDE-MAX5 RS485 + USB version
The core of your communication system is MAX5 integrated. The software included makes the connection between controller and PC by RS485 or a USB port.

CDE-MAX5 GSM + RS485 + USB version
GSM option is available for multiple MAX5 remote control. The communication software included allows you to control one or more controllers even if they are installed in different plants. More over you can always make the connection between the controller and PC by RS485 or a USB port. GSM option features SMS communication and SMS alarm.

Options: ETHERNET + RS485 + USB
Internet: to log-in all you need is a PC, the remote management software and either local or remote network access. You can set the device to trigger email alerts. You can also access the Internet either by plugging a RS485 cable into your computer or via USB.

CDE-MAX5 WEBSERVER + HOSTING Service
Internet: just a web browser for remote and reliable control of one or more MAX5 controllers. NO software or application needed. We host your controller’s interface! Otherwise you can always make the connection between the controller and PC by RS485 or a USB port.

Hosting service operates with ETHERNET or GPRS / GSM option.
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).
**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-LINR**
1/2” injection lance for dosing sodium hypochlorite in hard water. PVC body.
Viton® or EPDM o-ring. Ball valve.

**INJECTION VALVE 1/2”**
Injection valve (PVDF).

**MF MULTIFUNCTIONS VALVE**
Multifunction valve (pressure, safety, antisyphon 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. Ball valve.

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

**CHEMICAL TANKS & SAFETY BUNDS**
Polyethylene, anti-UV for chemicals. Complete chemical tanks with safety bunds.