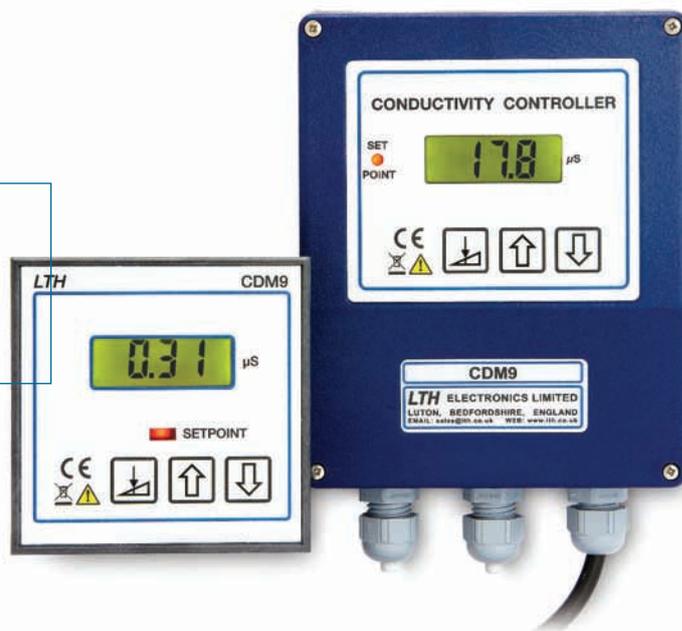


## CDM9 Series

### Conductivity Indicator Controller



## Features

- IP66 surface and panel mounting enclosure
- Ideal for use in small water treatment systems
- 3 user selectable ranges
- Digital set point adjustment
- Single changeover relay

The CDM9 is available as a panel or surface mounting Conductivity Indicator Controller in an IP66 enclosure with a 3.5 digit liquid crystal display.

The CDM9 provides a single pole change over relay to operate a solenoid valve, dosing pump or visual or audible alarm.

The relay can be set to energise on a rising or falling conductivity enabling the CDM9 to be used for a variety of water treatment applications.

A LED on the front panel indicates when the relay is energised.

The CDM9 has a digital set point adjustment using the front panel membrane switch.

Manual temperature compensation can be switched in or out with the process temperature set using a PCB mounted potentiometer with a fixed 2 % / ° C slope.

## Specification

### CDM9 Series

#### Range of measurement and control

0–19.99 uS/cm, 0–199.9 uS/cm,  
0–1999 uS/cm.

#### Conductivity Accuracy

2% of reading  $\pm 2$  digits.

#### Linearity

1% of range.

#### Repeatability

1% of range.

#### Ambient Temperature

-20°C to +50°C for full specification

#### Temperature Variation

$\pm 0.02\%$  of range / °C (typical)

#### Temperature compensation Slope

Fixed 2% / °C over 0 - 100°C.

#### Temperature compensation Point

Selectable by potentiometer 0 - 100°C..

#### Temperature compensation base

Fixed at 25°C.

#### Display

3.5 digit back-lit LCD,  
20mm character height.

#### Control relay

Adjustable set point with volt free contact  
5A 250vAC. A red LED indicates the relay  
is energised.

#### Hysteresis

1% fsd.

#### EMC:

2004/108/EC using BS EN 61326: 2006

#### Low Voltage Directive:

2006/95/EC using BS EN 61010-1: 2001

#### Power Supply

110v or 230v AC, 50/60 Hz, user  
selectable, 3W max.

#### Panel-mount housing

Conductive ABS plastic in grey.

#### Panel-mount weight

Less than 800 grams  
(controller only).

#### Panel-mount environmental

IP66 to the front when correctly  
mounted in the panel.

#### Panel-mount dimensions

96 x 96 x 140mm (H, W, D) including  
connectors (Panel cut out 92 x 92mm).

#### Wall-mount housing

Conductive ABS plastic in blue.

#### Wall-mount weight

Less than 800 grams  
(controller only).

#### Wall-mount housing

IP66 in all directions.

#### Wall-mount housing

160 x 130 x 65mm (W, H, D)  
excluding wall brackets.

LTH Electronics Ltd, Chaul End Lane, Luton, Bedfordshire. LU4 8EZ England  
Telephone: +44 (0)1582 593693 Fax: +44 (0)1582 598036  
email: sales@lth.co.uk web: www.lth.co.uk



www.lth.co.uk

## Order Codes

Type No	Part No	Description
CDM9P	1208	IP66 Panel mounting conductivity indicator/controller with single relay output.
CDM9S	1209	IP66 Surface mounting conductivity indicator/controller with single relay output.



These products comply with current European Directives

LTH Electronics Ltd reserves the right to make changes to this data sheet or the product without notice, as part of our policy of continued developments and improvements. All care has been taken to ensure the accuracy of information contained in this data sheet. However we cannot accept responsibility for any errors or damages resulting from errors or inaccuracies of information contained herein.