

# D-CHEK

## Continuous Organic Pollution Monitoring



The D-CHEK developed by MD Instruments Ltd, is a continuous Organic pollution monitoring system, based on UV light absorption/scatter principles along with automatic cleaning and zero calibration facilities. The COD/TOC measurement will include temperature and suspended solids, whilst the BOD measurement will include temperature, suspended solids and dissolved oxygen

### Applications

Typical applications of the D-CHEK can be found in final effluent discharges, Works Inlets, intake protection, rivers, reservoirs, fish farms, and industrial waste inlets/outlets such as DAF plants.

Due to various applications, pumps to draw the effluent sample are not included in the D-CHEK unit. A clean water supply is required for automatic cleaning and zero calibration.

## Specifications

Parameters	Range
COD	0 - 1500 mg/l <sup>1,2</sup>
or TOC	0 - 150 mg/l <sup>1,2</sup>
or BOD	0 - 150 mg/l <sup>1,2</sup>
Suspended Solids	0 - 100 mg/l
Temperature	5 - 50o C
Dissolved Oxygen	0 - 100% (with BOD only )
Power	110/240AC 50/60Hz
Current Output	Four outputs 0/4 - 20 mA <500 ohm
Relay Output	Up to 16 miniature relays.
Digital Interface	RS232C digital Interface.
Power Consumption	Min 5VA Max. 30VA
Housing	Enamelled Steel, IP55 (enquire for IP65) (Instrument Case) ABS, IP65 (Flow-Cell Case) ABS, IP65

Sampling Head Complete with floating ball, (optional)

1. (depending on application)
2. (enquire for higher ranges)

## Features

- \* Microprocessor based COD/BOD/TOC Monitoring System
- \* Automatic Cleaning and Zero Calibration of sensor heads
- \* Menu driven instructions via 2x16 Dot Matrix Display
- \* Operational compatibility with MD-products
- \* Reliable and robust monitoring system
- \* Simple to setup and calibrate - Low Cost of Ownership
- \* Local Graphics Display of parameter trends (Optional)
- \* Permanent storage of calibration settings
- \* High and Low alarm signals
- \* Up to 8 current outputs is possible (Optional)
- \* RS232C Digital Interface output
- \* Up to 16 miniature relay outputs
- \* Up to four COD flow-cells within one Unit (Optional)
- \* BOD parameter includes DO measurement (Optional)

In the interests of improving and updating its equipment, MD Instruments Ltd reserves the right to alter the specifications to equipment at any time.

**MD Instruments Ltd.**

Unit 8, Newburn Centre, Dean Street, Swindon, SN1 5EW

Tel: +44 (0) 1793 433595 Fax: +44 (0) 1793 644244

sales@mdinstruments.co.uk