

*pH Controller/
Monitor/Data Logger*

MCD-200



Std. External wall mount design

Std. IP 54 Enclosure

Std. Electronic security lock

Std. Potential free relays.

Std. Automatic electrode calibration.

Std. Non volatile memory.

Std. Single or dual output.

Std. Additional internal power terminals

Std. Moisture proof soft touch keypad.

Std. Dual proportional pump pulsing outputs.

Std. Back lit LCD display.

Std. Dual isolated 4-20mA outputs with adjustable offset and span

Std. Data logger / retriever.

Std. 2 Line 40 Character Alpha/Numeric display

liquid@liquidcontrols.com.au

www.liquidcontrols.com.au

Liquid Controls (Aust) Pty Ltd

3/1 Quist Crt.,
Dandenong Vic. 3175

P O Box 4174
Dandenong Sth. Vic 3164

Tele: 03 9794 7066
Fax: 03 9794 0641

DUAL CHANNEL Controller / Monitor / Data Logger

FEATURES.

The **MCD-200** has been designed to dose, monitor and record pH levels of trade waste systems to local water authority standards. Using a pH electrode to sense incoming pH levels the controller will activate the required acid or alkali pump and proportionally dose to the preset parameters. A second pH electrode is continuously monitoring the outgoing pH flow and if outside parameters a warning light will activate to indicate a fault. Additional lights can be added for low chemical indication along with optional SMS text notification for alarm faults. The 4 channel data logger uses the industry standard 4-20ma input to record both incoming and outgoing pH levels for downloading via the Liquitronics Data Retrieval unit. The Data logger can also be set to monitor the temperature of a treatment pit.

Electronic Security:

This feature has been included to prevent the problems associated with tampering or unauthorised access to the controller.

Proportional Pump Control:

The **MCD-200** has been designed to react in proportion to the amount the pumps need to deliver (i.e. the further from the set-point the solution is, the faster the pump is pulsed).

Outputs:

In line with current instrumentation requirements these units have been designed to accept and deliver all the standard outputs such as, potential free relay N/O and N/C contact closures and fully isolated 4-20mA current loops.

SPECIFICATIONS

Displays: 2 line, 40 character Alpha Numeric LCD display with backlighting. Displays combinations of pH, mV and temperature.

Enclosures: Fully sealed PVC / Polycarbonate with hinged front cover to IP 54 rating. Dimensions: 400(L) x 300(W) x 200 (H) mm.

Keyboard: 16 plastic membrane tactile switches.

Power: 220-250VAC, 50Hz consumption, typically 10VA.

Inputs: pH or mV via external BNC sockets. Temperature input via a cable gland.

Outputs: 4 x SPDT 5 Amp (resistive) relays with independent power terminals.

Pulse Outputs: Via OPTO coupler Non Polarised.

Isolated 4-20mA: Independent with fully adjustable offset and span.

Memory: Non volatile.

Relays & Pulse Set Points: Independently adjustable 0.01 – 13.99 pH, 0-1000 mV.

Relay & Pulse Hysteresis: Fully and independently adjustable on each channel.

Data Logger: 10 min Sample time 35 days data storage. 4 channel input.

Data Retrieval (supplied with Data Logger): Wireless download up to 20mts. Download as a "CSV" file to view in Excel program.



MCD-200