

The MCS-16S provides complete Auto-Desludging Control....

The concentration of settled sludge can vary from season to season as well as region to region. For example, during winter time it is possible that the sludge density can be as high as 5.0% while in summer it can be as low as 1.50%. This can pose a problem where a gravity type desludging system is implemented.



The MCS-16S unit can be installed to monitor the Sludge Density (%) from a primary tank as well as controlling the desludging process. The timer initiates the desludging by

opening the valve and then the MCS-16S unit keeps the valve OPEN while it continues to measure the sludge density. The discharge of the thick sludge (>5.0%) is very slow and may take a few hours before it starts to thin. A successful desludging is achieved when thick sludge (>1.2%) is detected. Once this is detected the MCS-16S keeps the valve OPEN until the sludge gets thinner (<1.10%).

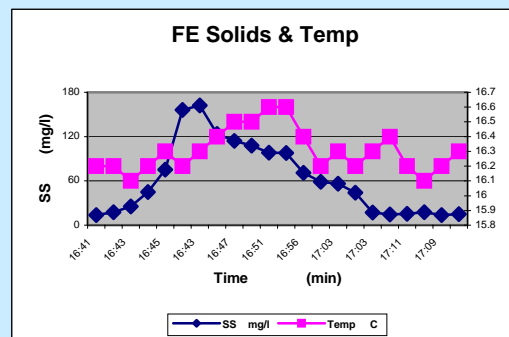


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Site Surveys...using MD-3 Portable Meter

The MD-3 portable meter was used to undertake site surveys of the solids (mg/l) and Temperature in 3 discharges to establish the process performance. The SH1e probe has a wide solids range linearity and the meter readings are comparable to laboratory dry weight solids results.



The stored data can also be played back and recorded on paper. In the plot alongside, a burst of high FE Solids and Temp. data was stored at 1 min intervals is demonstrated using MS-Excel

Sludge Blanket Level and Solids Monitoring....



The MCS-32S unit was installed in a Ww T Works to monitor both the Suspended Solids (mg/l) as well as the sludge blanket Level (m) in a final settlement tank.

Determining the sludge blanket level will enable the operator to identify any anticipated problems in the settlement process. The blanket level as well as the sludge interface solids are transmitted via the 4-20mA current Outputs to the SCADA system to display the trends.

The sludge solids and the interface level are displayed on a large backlit 2x16 Dot Matrix LCD local display. The solids thresholds, current outputs,

response time, relay delay time and probe calibration can all be programmed via the membrane keypad.

- NO Moving Parts.
- Easy to operate & maintain.
- Provides information with regards to interface formation.

New Product: E-Chek

- Bed Expansion Depth (mm or %)
- Media Loss (mm or %)
- Turbidity (mg/l)



Allows full implementation of Filtration control and automation
 OPTIMISING the following:

Water quality ** Energy consumption ** Tank maintenance **
 Capital costs ** Operational costs ** Effective Management

Contact Us for more details

Product Range

2006

Fixed Installation

Applications

Effluent Monitoring Systems

1. **D-Chek** BOD/COD/TOC Monitor
2. **WQM-16E** SS, pH, NH₃, Temp., DO, Cond., Colour

MLSS & Temperature Monitoring

3. **WQM-2S** Dedicated Monitoring Unit
4. **WQM-16S** Up to Eight Monitoring Points

Redox & Temperature Monitoring

5. **WQM-Redox** Up to Two Monitoring Points
6. **WQM-16S** Up to Eight Monitoring Points

DO & Temperature Monitoring

7. **WQM-DO** Up to Two Monitoring Points
8. **WQM-16S** Up to Five Monitoring Points

MLSS, DO & Temperature Monitoring

9. **AS-Chek** Dedicated Monitoring Unit
10. **WQM-16S** Up to Four Monitoring Points

Sludge Blanket Detection & Monitoring

11. **MCS-2S** SS & Alarm - Two Monitoring Points
12. **MCS-16S** SS & Alarm - 16 Monitoring Points
13. **MCS-16S** SS, Level (m) and Alarm - 8/16/32 Points
14. **SB-Chek** SS, Level and Alarm - AUTOMATIC

SS/Turbidity & Temperature Monitoring

15. **WQM-Turb** Dedicated Single Channel
16. **WQM-16S** Up to Five probes

Sand Filter Monitoring System NEW!

17. **E-Chek** Bed expansion, Media loss & Turbidity

Auto-Cleaning Unit

18. **WQM-CL** Cleans up to Two Probes

All units provide current outputs, relays, and RS232C interfacing.
All data are displayed in mg/l, %, °C, and m, via 2x16 dot matrix LCD units.

****Free Site Survey**

****One Year Full Warranty (Labour & Parts)**

Portable Meters

1. **MD-1** MLSS & Temp. for 5AS/RAS Sites
2. **MD-2** SS & Blanket Level for 5 Sites
3. **MD-3** SS & Temp. for 5 FE Sites
4. **MD-4** SS, MLSS & Temp. - all applications
5. **MD-6** MLSS, DO & Temp. - AS Plants
6. **MD-Soft** Software package for all MD-meters

All portable meters provide data-logging facilities and RS232C interfacing.
All data are displayed in mg/l, °C, and m, via 2x16 dot matrix LCD units.

Please don't hesitate to contact us for further details on each product or to discuss your application. We can visit you to survey the site for demonstration and trial purposes.

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