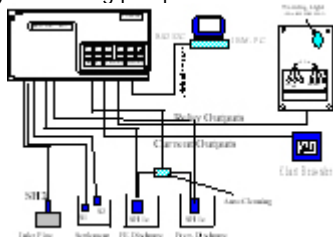


## WQM-16S Monitors Inlet Solids, Blankets & Turbidity...PLUS Polymer Dosing Control

The WQM-16S was installed in an effluent Plant to monitor the Inlet solids (up to 7.0%), two sludge blanket points, the solids of the Sludge Press effluent and the turbidity of the Final Effluent discharge and continuously display the data on the local dot matrix display as well as to the SCADA system via the eight current outputs. The WQM-16S is capable of controlling the



WQM-16S WQM-CL AUTO-Cleaning unit, which is supplied by MD Instruments Ltd, to clean the SH1e probe at regular intervals. The current outputs are fed to the SCADA system controlling the de-sludging of the settlement tank as well as display the trends of each parameter. The current output of the In-Line solids is used to control the polymer dosing pump.



Please have a look at our new website <http://www.mdinstruments.co.uk>



## COD Monitoring of a Dairy Factory

The D-CHEK is designed to continuously monitor the COD/BOD/TOC, SS and Temperature of various Effluents.

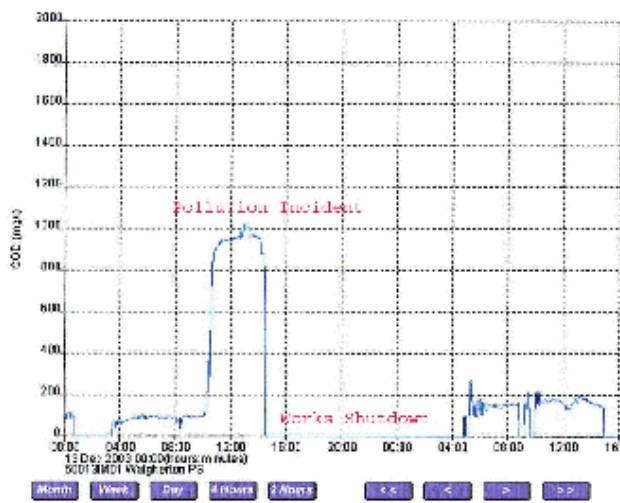
The installed D-Chek monitors the COD, SS, and Temperature of the effluent discharge continuously at a Dairy factory.

The effluent sample was lifted from the chamber, approx. 1.5m depth, to pass through the measuring Flow-Cell. The D-Chek carries out an Auto-Cleaning and also Zero-Calibration (at set intervals) of the sensors to eliminate the effect of light source variations.



D-Chek

The graph below represents the COD trends of the dairy effluent involved reflecting an incident which occurred. The factory admitted there had been a major Works problem and shutdown the discharge immediately.



COD trend of the dairy effluent



MCS-32S

## Sludge Blanket Level Monitoring...

The MCS-32S and SB-Chek unit were installed at a Wastewater Treatment Works to monitor both the suspended solids as well as the blanket level in a clarifier tank. By determining the blanket interface it enables the operator to identify any anticipated problems in the settlement process, via the PLC control system. The blanket level is transmitted via the 4-20mA current Output to the SCADA system to display the trends.

The sludge solids and the blanket level are displayed on a large backlit 2x16 Dot Matrix LCD display. The solids thresholds, current outputs, response time, relay delay time and probe calibration are all programmable via the membrane keypad.