DCM Process Control

Info Sheet

- Fully Portable
- Sensors for pH/temp/EC through to COD/ Ammonia/Sulfide
- Custom Industrial Parameters
- Integral sample delivery pump
- Sampler outputs
- Corrosion Resistant
- Lockable
- Battery or Mains operation
- 3G or satellite comms
- Flexible Data Format

PQMS

Portable Quality Monitoring Station

Designed for multi parameter trade waste monitoring in industrial waste, sewers, wet wells and WWTP's.

Ideal for rapid real time WWTP optimization.

2013-05 - V2

Portable Quality Monitoring Station

What is it?

The DCM Portable Wastewater Monitoring station is a compact fully featured monitoring package for use by Trade Waste Departments, WWTP Operations Groups and Process Engineering Departments.

The station can take a waste feed from existing sample delivery systems or from the DCM raw wastewater SDU. This pump allows it to be used on all wastewaters. Industrial waste, raw sewage from deep gravity sewers, wet wells and WWTP inlets are no problem. The pump does not suffer from inlet blockages, ragging or other problems associated with these difficult applications.

The station incorporates sensing packages ranging from s::can's traditional pH/EC/temp to more comprehensive packages integrating addition sensors such as s::cans spectro::lyser, i::scan and ammo::lyser to provide nitrate, sulphide, COD, CODf, suspended solids, ammonia and custom parameters such as proteins, blood and industrial chemicals. .

The station can drive existing auto samplers to capture out of spec waste or take routine samples and can be configured to incorporate a single shot sample bottle without an ancillary sampler.

Full 3G or sat comms allows real time interface with the portable monitoring station from any location allowing not only real time remote monitoring but reconfiguration as required, without the cost of a site visit.

How it works

The portable monitoring station, including the DCM sample delivery pump is packaged in a wheeled 750mm high by 550mm wide and 330mm deep ,316 stainless lockable housing with an overall weight of approx. 40Kg The station incorporates a base panel with backing plate and mounting fins to hold the customer defined hardware. The s::can con::cube process computer, up to 4 multi sensor mounting blocks, comms unit, DCM's SDU, solenoid pack, power input, output sockets and ancillary other equipment all fit in the one station. The electronics are mounted on one side with the wet equipment on the other making a compact and practical package.

The DCM SDU is simply deployed into the target water. If using the sewer version there is a 20mm minimum liquid level requirement at the intake. The control computer tells the SDU to draw and deliver a 750ml sample on a customer determined time base. The pump delivers the sample to the sensors with the outputs read, logged in the process computer validated by s::cans validation software and transmitted onward as required. The PC can store many months of data. Onboard input and output modules to allow other brands of sensor to be read into the unit and a variety of raw or computed outputs send to other devices such as samplers etc. Where a single unrefrigerated sample is required in response to a pre-programmed alarm condition, the system can be configured to provide this without the need for a separate auto sampler.

An sms message can be sent to notify operations that a sample collection is required. The system requires either mains or 12V battery power plus compressed air or CO_2 for sensor maintenance and sample delivery.

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