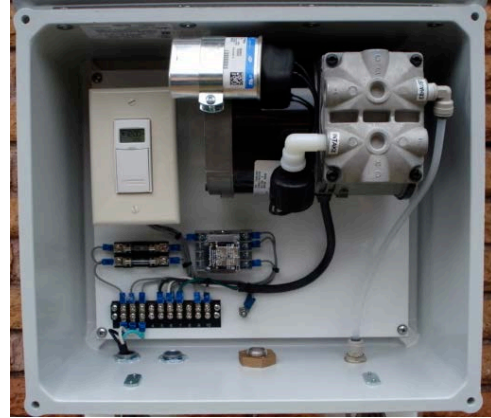


Automatic Sensor Cleaning

The Reliant Water Technologies Model SCM Sensor Cleaning System



Model SCM Sensor Cleaning Control Module, Closed & Open

One of the most distasteful responsibilities of wastewater Operators and maintenance personnel is the cleaning and recalibration of sensors in a wastewater plant. Not only is this function time consuming but it can also be damaging to the sensor. pH electrodes are easily broken, DO sensor life is often shortened by manual cleaning, and online ISE sensor membranes are easily damaged beyond further use. All of these problems only add costs to the labor they require.

Reliant Water Technologies has developed a universal sensor cleaning system that can reduce the amount of time spent on cleaning plant sensors, while lengthening their time of replacement, sometimes doubling or tripling their life. The **Reliant Model SCM Sensor Cleaning System** utilizes an industrial grade compressor and can be equipped with controls for up to 4 sensors per module. All that is required is a programmable relay on the instrument utilizing the measurement sensor, and possibly, the need to control sensor output.

The Model SCM is especially useful in plants that are located in areas that freeze during the winter. The rugged compressor used in performing the cleaning function is industrial grade and has proven to operate continuously for many years. This compressor is not a small 'tire pump' type of compressor but a quality compressor designed for use in industrial applications. A vibration dampening platform provides long term protection from damage to the pump and connections.

The Reliant Sensor Cleaning System can be either wall or rail mounted in the plant and it will operate in sub-zero conditions. Each compressor is housed in a NEMA enclosure and supplied with 20' of 0 to 70 PSI flexible tubing and connectors.

Requirements for Use

Only 3 things are required for the Model SCM to work on your sensor –

1. Control relays must be available on the analyzer for the target sensor
2. Possibly, the need to program a delay in the sensor input or the SCADA sensor reading. Consult Reliant Water for further information if necessary.
3. The forming of a copper ‘nozzle’ on the sensor connected to the supplied pressure tubing

Specifications

Generated Air: 1/2 HP centrifugal air pump

Input power: 115V/60Hz, 5A or 230V/50-60Hz, 2.5A

Enclosure: NEMA 4X, vent protected

Dimensions: 17.5"Wx16"Hx10.5"D

Weight: 34 lb (15.4 Kg) w/o mounting backplate

Installation Examples



Reliant Sensor Cleaning



From This



To This

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