Sensors **Switches** **Controls** **Fieldbuses**
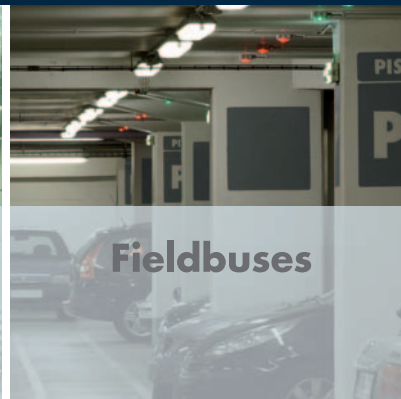
Application notes

Application Note : July 2016	
Market involved : Water treatment	
Product : RSGD 75mm	
Customer : Panel builder	
Subject : Flexible installation in pump reversing applications	

CUSTOMER ISSUE :

In some pump applications our customers need to perform regular reversing of the pumps to clean the impellers from sludge and other material and leave the pump free to rotate.

Due to the hazardous gases present in some of the installations, the pumps are not always easily accessible, so our customers need to be able to remotely monitor the status on a 24/7 basis.

Due to the various types of liquids and other foreign matter that may be present, our customers need to ensure that the pump is reliably protected under abnormal working conditions.

OUR SOLUTION :

The RSGD 75mm is designed in a very compact housing to fit in applications with limited panel space.
The phase sequence protection can be disabled via Modbus or via the Test/Reset button to allow motor operation in reverse.
The 3 output relays can be used to signal when the RSGD is in alarm, bypass or running mode, by means of pilot light indication on the panel.
The integrated overload protection, as well as the PTC input, offer reliable protection for the pump in the case of anomalous working conditions.
Alarms can be reset both automatically or manually. In the case of manual reset, the alarms can also be reset remotely via a voltage-free contact.
The RSGD is also equipped with Modbus RTU communication for read-out of instantaneous variables as well as a datalog of the last 32 starts performed.

BENEFITS :

- Compact solution

- Self-learning algorithm automatically adjust the ramp parameters in case of load changes at start.

- Increased pump protection against overload and high temperatures

- Remote resetting of alarms

- Serial communication allows remote control and monitoring of the pumps' performance and status

- Output relay indications can be used to signal pump status on the panel via pilot lights