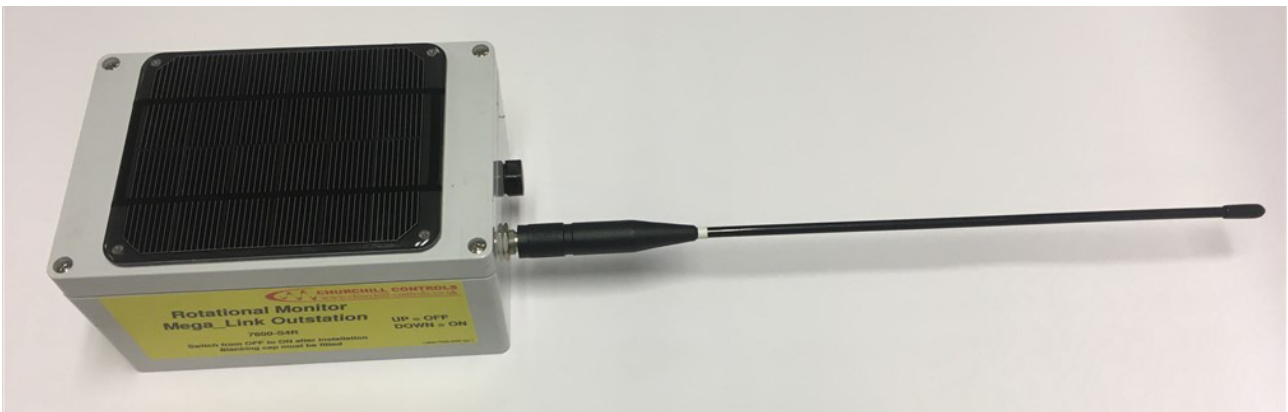


# *Mega\_Link*

## *Rotational Monitor*

### *Telemetry System*

*Part Number: 7600-S4R-68*



***Brochure Iss 1.0***

## Overview

The Mega\_Link Rotational Monitor Telemetry System can be used to monitor the continuous operation of rotational filter beds typically found in a waste water treatment works. The rotational monitor unit is fitted to and carried by the arm of the rotational waste water filter bed.

It includes an electronic compass to monitor movement within the earth's magnetic field and it generates and transmits a Rotation Fail alarm if the structure stops rotating.

The rotational monitor unit operates as a Mega\_Link outstation and multiple units can monitor an array of filter beds all reporting to a common Mega\_Link basestation.

## Background

Many unmanned sites use rotating filter beds to treat the water. These rely on a rotating arm to distribute the waste water evenly over a circular bed of bacterial filter media. The arm is usually powered by the water pressure. If it stops rotating for any reason the filtering will become ineffective.

There is thus a need to monitor the arm to confirm that it is rotating. This can be achieved by installing a Rotational Monitor Mega\_Link Outstation onto the arm of each filter bed. The unit constantly monitors the state of rotation of the arm on which it is mounted and will radio an alarm if it stops rotating. It also transmits a count of the total number of revolutions of the arm and can also measure the rotation speed.

## Specifications

Monitors:	Rotational Fail Alarm Revolution Count Revolution Speed
Solar panel:	P102C, 2.2W, 6.5V, Urethane, 136x112x5mm, IP67
Batteries	4x AA R6 1.2V 2000mAh NiMH
Enclosure Specification:	Hammond 1554T2GY, 180x120x90mm, IP68
Weight:	1 kg

