

THE SMARTER WAY TO MONITOR YOUR FLEET



SMART
SERVICE
MONITOR



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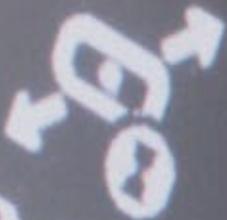
RCT's Smart Service Monitor was designed with both operator and machine safety in mind. Part of the Muirhead™ Protection System range, it takes the traditionally basic device, which previously only gave an estimate on when a machine requires a service and delivers accurate information of up to eight different functions at once.

Information is power and the Smart Service Monitor device delivers just that, in an easy and concise manner. This information empowers end-users and ensures machines and individual components are serviced in a timely manner to significantly increase machine availability, while extending the lifespan of equipment.

Having the relevant information at hand allows for a proactive rather than reactive response, which in turn drives down overall costs and downtime significantly.

The system's ability to monitor up to eight different measurable outputs is also a cost-saving feature in itself, with only one device to purchase over multiple.

MUIRHEAD®
SMART PROTECTION SYSTEMS BY RCT


00287.0
Guidance hrs



The Muirhead™ Smart Service Monitor can oversee the work hours of various equipment and components and provides both visual and audio alerts. However, the top five most common components to be monitored are:



HOURS TO NEXT SERVICE

Can count up or down (programmable to preference) to give a warning if the equipment requires or is overdue for a service. In addition, it is also capable of sending out both visual and audio alerts to warn the operators.



MACHINE WORK HOURS

This delivers an accurate measurement of the time the machine has been properly utilized; it is different to Engine Run because it will not factor in idle time, etc.



ENGINE RUN HOURS

Monitor the total time the engine has been running, including any idle periods. Depending on the setup the same input could also be used to monitor actual work hours. The counter has been designed to count up or down depending on the requirement. By logging such an integral piece of information, it is possible to ensure that machine servicing is carried out regularly, to achieve optimal performance. This is not only a legal obligation to reduce any risks because of unexpected failures, but it also prevents machines from running at a lower efficiency.



REMOTE HOURS

The monitor will take note of remote operation hours and can be configured to alert the user when the Remote equipment service is nearing.



GUIDANCE AUTOMATION HOURS

This will allow the end-user to accurately gauge when Guidance Automation is due for servicing, in order for it to be scheduled on time.



All that is required to monitor a machine component via the Smart Service Monitor is either a frequency input, PWM input or just a straight digital or analogue voltage.

In addition, the Smart Service Monitor is complementary to RCT's ControlMaster™ Automation solutions. The Smart Service Monitor can record the operating hours of these solutions to ensure servicing can be carried out at appropriate times to maintain optimal efficiency.

The Smart Service Monitor is easy-to-install and can be installed on any machine. The device is configured through an inbuilt programming tool. All that is needed is a smart device, PC, laptop or phone connected to the Wi-Fi. For security reasons, the connection is password-protected to prevent people from making changes that the supervisor might not want including re-setting counters.

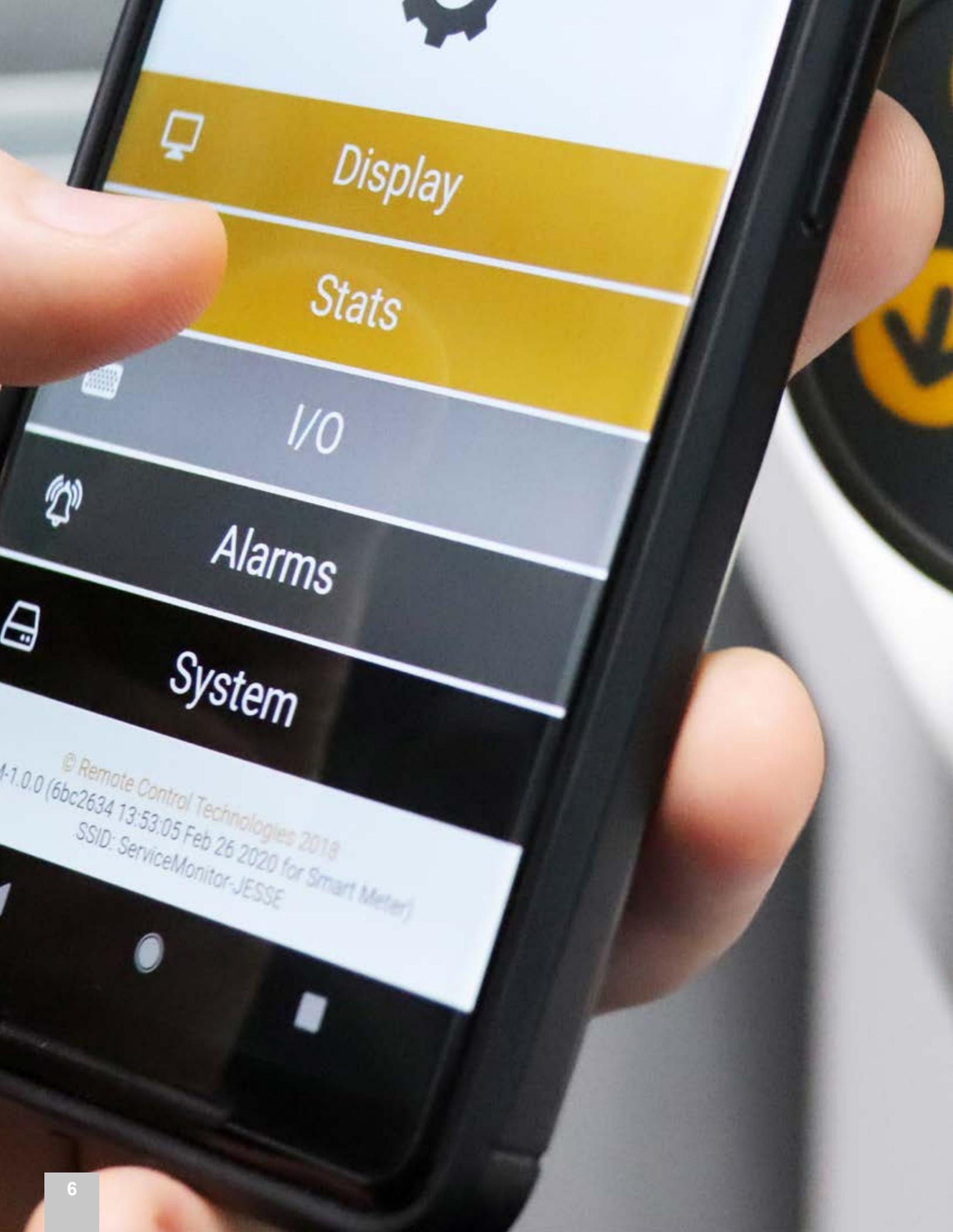
As a result, end-users are provided with integral information about machines that they would not normally have access to.

The system delivers four stages of alerts when a service is nearing its due date, giving plenty of warning in order for servicing to be scheduled accordingly.

Some examples of this are:

- Combustion engine wear, or actual work hours as opposed to engine hours
- Retarder/brake usage monitoring
- Drill rig lube pump, percussion hours and powerpack hours

In addition to its monitoring capabilities, the Smart Service Monitor has an internal real-time clock that allows the user to manually set personalized alarms via the on-board buttons for different times of the day.





SPECIFICATIONS

Operating Voltage:	11 - 36 V
Maximum current consumption (no outputs):	Input voltage and software dependant, absolute max @ 12 V, 116 mA
Inputs:	Frequency inputs up to 50 kHz PWM between 5 - 95% Digital/Analogue 0 - 35 VDC
Weight (controller only):	200g (7oz)
Operating temperature:	-20°C (-4°F) to 60°C (140°F)
Environmental rating:	IP65

PARTS

15936	SMART SERVICE MONITOR KIT
15195	SMART SERVICE MONITOR CONTROLLER
15966	SMART SERVICE MONITOR LOOM



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