

# SMART SERVICE MONITOR



## MUIRHEAD® SMART SERVICE MONITOR

15195

### Purpose & Benefits

The Muirhead® Smart Service Monitor is designed to monitor the operating hours of equipment and to alert the user by providing both a visual and audio alarms notification of the pending service or if the scheduled service is overdue. It is capable of monitoring and recording the operation time of the engine, the running time of the remote control or Guidance systems (where fitted), the working time of the machine and other customisable monitored inputs created by the user.

The Muirhead® Smart Service Monitor has been designed with a Wi-Fi web application interface. This enables the user to apply/upload a tailored service schedule to an individual machine or to multiple machines. This can be very useful in enforcing conformance with site maintenance policies. The user can also download machine operational data and export to a CSV file.

In addition to the monitoring capabilities, the service monitor has an internal real-time clock that allows the user to manually set personalised alarms via the on-board buttons for different times of the day.

### Equipment Type

All mobile equipment where OEM warranty obligations, preventative maintenance scheduling or machine utilisation and uptime demands continuous monitoring.

### Target Customer

All operators of light and heavy mobile equipment concerned with unintentional machine component wear due to extended service intervals. Equipment such as light vehicles, haul trucks, graders, dozers, fuel trucks, loaders, service vehicles and water trucks.

### Functionality

The Muirhead® Smart Service Monitor can be accessed by a smart phone, tablet PC or a laptop, utilising WiFi connectivity. Once connected the device can be configured quickly and easily via the web interface. This connection is password protected to prevent unwanted tampering.

#### Hours to Service functionality

When the engine run input is activated, the service monitor will record the operational hours of the machine and will count down the hours until the next service. The following stages are sequenced to inform the operator of the pending service on a scale of importance.

Stage 1: When the countdown reaches twelve (12) hours, the text on this screen will change to amber, flashing for 30 seconds and the device will beep three times.

Stage 2: When the countdown reaches six (6) hours the device will beep three times and the screen will flash for 30 seconds. This will repeat every 30 minutes.

Stage 3: When the countdown reaches one (1) hour, the device will beep three times and the screen will start flashing for 30 seconds. This will repeat every 15 minutes.

Stage 4: When the countdown reaches zero (0), the text on the screen will change to red and replaced with '**Srvc Overdue**' and the device will start counting up. The device will also beep three times and the screen will flash for 30 seconds. This will repeat every 30 minutes.

#### Configurable Inputs

The Smart Service Monitor's eight (8) monitored inputs are fully customisable via Web application interface. The monitored inputs can be:

- ▶ Voltage inputs switched to ground
- ▶ Voltage inputs between 0-35 V
- ▶ Monitor a variety of frequency inputs: e.g. can be used to measure frequency setpoints for vehicle overspeed inputs and record instances.
- ▶ Monitor PWM inputs: can measure PWM setpoint inputs and record instances

#### ADDITIONAL DOCUMENTS

PRODUCT ONLINE



CUSTOMER DATASHEET

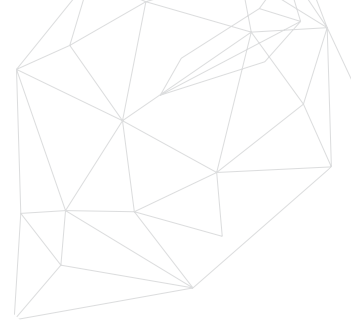


MANUAL



# PRODUCT OUTLINE SHEET

## SMART SERVICE MONITOR



APN	HEAVY DUTY	WIFI CONNECTIVITY	MULTI VOLTAGE	IP65 CONTROLLER	VISUAL & AUDIBLE WARNING
15195	Y	Y	Y	Y	Y

### Key Features

- ▶ Audio alarm warnings and visual indicators.
- ▶ Wide range supply input – 11 to 36 volts.
- ▶ Real-time colour display.
- ▶ Customisable digital or analogue inputs.
- ▶ Can monitor up to eight inputs.
- ▶ Environmentally sealed – IP65.
- ▶ Compact and robust design.
- ▶ Real time personalised alarms.
- ▶ Easy configuration via the web interface.
- ▶ Simple and easy to use.
- ▶ Enforces safe operating practices.
- ▶ User friendly.
- ▶ Simple and automatic operation.

### Parts List

PARTS LIST – QUANTITY SUPPLIED

PART #	DESCRIPTION	15936
15195	CONTROLLER PROGRAMMABLE	1
15966	LOOM SMART SERVICE MONITOR	1

### Quoting & Pricing

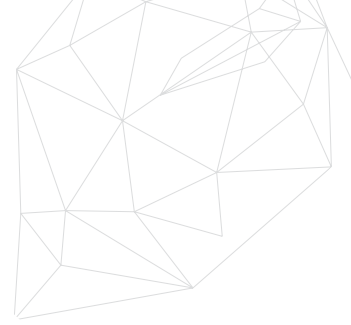
Smart Service Monitor pricing in Price List will include all of the components listed above in the Parts List. Spare or replacement parts can be ordered via the part numbers in the Parts List.

### Additional Documents

ITEM	DESCRIPTION	DOCUMENT NUMBER/TITLE
1	Datasheet	<a href="#">SBMH0820002-Smart-Service-Monitor</a>
2	Product Manual	<a href="#">M1159</a>

# PRODUCT OUTLINE SHEET

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### Related Images

