

ENGINE PROTECTION SYSTEM



6-FUNCTION TO SUIT WATER COOLED ENGINES

3565



4-FUNCTION TO SUIT WATER COOLED ENGINES

9200



6-FUNCTION TO SUIT AIR COOLED ENGINES

3747



4-FUNCTION TO SUIT AIR COOLED ENGINES

9301

Purpose & Benefits

The Muirhead® Engine Protection system (EPS) is a control module which is supplied with up to 6 user specified sensors to monitor practically any alarm condition on virtually any machine. The electronic EPS is a solid-state designed PCB, enclosed in an IP65 metal housing. With no mechanical parts, the EPS control module is extremely reliable, easy to install and simple to use. Every EPS control module can be customised to monitor known problems and functions commonly associated with equipment failure. This is one of the many reasons why Muirhead® products are the preferred equipment protection systems for all mines, contractors and Original Equipment Manufacturers.

Note: Additional looms, fittings, switches, lights and siren may be required to perform a complete installation. When selecting the appropriate EPS configuration, please reference the RCT "EPS Selection Guide". [Document # XXX XXX XXX.](#)

Functionality

The Muirhead® EPS is a control device which receives inputs from a user selected group of engine monitoring sensors such as coolant temperature, coolant levels, hydraulic fluid temperature, hydraulic fluid levels, air filter restriction, alternator voltage, transmission temperature or any number of other monitoring sensors.

The units are sold with either a 4-function or 6-function control unit for air cooled or water cooled engines.

The systems are multi-voltage and can be connected to a power supply between 12 to 32 volts DC.

Electronic circuitry within the EPS control unit monitors the state of the switches and sensors, and then activates the corresponding alert indicator and control outputs when an alarm condition is sensed.

The EPS labelled LED light displays the alert indicator or function that has faulted. A test switch located on the front of the EPS control unit allows the operator to simulate a fault and test the complete system.

A connector with 12 contacts located on the rear of the EPS control unit facilitates the necessary harness wiring for the inputs and outputs.

Part no. 3565 & 3747 are 6-function units that can accommodate up to 6 inputs simultaneously. Part no. 9200 & 9301 are 4-function units can accommodate a maximum of 4 inputs. The inputs can range from critical engine sensors like water temperature, oil pressure and coolant level to hydraulic temperatures, levels and pressures and transmission temperatures, levels and pressures.

The 4 or 6 inputs can be matched to the 3 outputs. These range from LED indication/alarm, throttle interface and engine shutdown.

APT	Water Cooled	Air Cooled	6 Functions	4 Functions	IP65	Multi-Voltage
3565	Y	-	Y	-	Y	Y
9200	Y	-	-	Y	Y	Y
3747	-	Y	Y	-	Y	y
9301	-	Y	-	Y	Y	Y

ADDITIONAL DOCUMENTS

PRODUCT ONLINE



CUSTOMER DATASHEET



MANUAL





PRODUCT OUTLINE SHEET

ENGINE PROTECTION SYSTEM

Equipment Type

- ▶ All water cooled and air cooled engine models.
- ▶ Target Customer
- ▶ All operators of water cooled and air cooled engine equipment.

Variations

- ▶ Panels are supplied with matching plug and standard labels for both water and air cooled engines. There are also blank labels included to cover any inputs that are not used.

Key Features

- ▶ Alarm only, return to idle/shutdown modes
- ▶ 6 inputs and 3 outputs
- ▶ System test function
- ▶ Individual fault indicators
- ▶ High quality connectors and mounting bracket
- ▶ Custom fault indicator labelling
- ▶ Compact and robust control panel design
- ▶ Reduces downtime by providing alarms before serious damage is done to engines
- ▶ Extends machine life by ensuring the machinery is operating with designated specifications
- ▶ Substantially reduces the risk of engine failure

Parts List

PARTS LIST – QUANTITY SUPPLIED

PART #	DESCRIPTION	QTY
3565	6-FUNCTION TO SUIT WATER COOLED ENGINES	1
9200	4-FUNCTION TO SUIT WATER COOLED ENGINES	1
9301	4-FUNCTION TO SUIT AIR COOLED ENGINES	1
3474	6-FUNCTION TO SUIT AIR COOLED ENGINES	1
4352	CYLINDER HEAD TEMPERATURE LABEL	1
5630	COOLANT FLOW LABEL	1
5635	COOLANT LEVEL LABEL	1
5637	OIL PRESSURE LABEL	1
0428	CONVERTER OIL TEMPERATURE LABEL	1
5634	OIL LABEL	1
0427	BLANK WITH RED DOT LABEL	2

Quoting & Pricing

Engine Protection Systems will include all of the components listed above in the Parts List.

Spare or replacement parts can be ordered via the APT part numbers in the Parts List.

Additional Documents

Item	Description	Document Number/Title
1	Product Brochure	Refer: SBMH0606048, Refer: SBMH1204008
2	Product Manual	M0160, M0170, M0488A, M0488B
3	EPS Selection Guide	XXX XXXX XXXXX

PRODUCT OUTLINE SHEET

ENGINE PROTECTION SYSTEM

Related Images



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