

ENGINE COOLANT LEVEL KITS



**COOLANT LEVEL KIT, MULTI-VOLTAGE
WITH HEAVY DUTY PROBE
(1 X 2205)**
11871



**COOLANT LEVEL KIT, MULTI-VOLTAGE
WITH HEAVY DUTY
PROBE (2 X 2205)**
11872



**COOLANT LEVEL KIT, MULTI-VOLTAGE
WITH LIGHT DUTY PROBE
(2 X 2006)**
11873

Purpose & Benefits

The Muirhead® Coolant Level Kits are designed to monitor engine coolant levels to prevent premature engine failure caused by low coolant level.

The Coolant Level Kits add an additional level of protection over the standard OEM coolant temperature gauge or warning light by also monitoring the engine coolant level.

Most OEM coolant temperature monitoring systems only measure the coolant fluid temperature. In the event of a loss of engine coolant caused by a blown hose or a leaking seal, these systems will not provide an overheating or high temperature alarm.

This is because the OEM temperature switches require emersion in the coolant fluid. When the coolant level falls below the temperature sensor, the OEM temperature monitoring system will fail to measure and display the accurate coolant temperature to the operator.

The Muirhead® Coolant Level Kits eliminate these shortcomings by warning the operator before the coolant has reached a dangerously low level. The visual and audible low coolant warning allows the operator to take corrective action before major engine damage occurs. Overheating caused by low fluid levels can cause engine head warping or cracking. It can also cause damage to gaskets and piston lockup.

Equipment Type

All water cooled engine models without fluid level sensors.

Target Customer

All operators of water cooled engine equipment without fluid level sensors.

Functionality

The 12-24V DC Coolant Level Kit is comprised of an IP67 controller unit which monitors the input signals from up to two fluid level probes and provides output to both an audible buzzer and/or a red LED pilot light.

The Kits will provide both an audible and visual alarm when the coolant fluid falls below the level of the fluid level probe mounted in the top of the engine radiator or the header tank.

The controller has a built-in 3-second delay to prevent false alarms caused by fluid momentarily flowing away from the probe when traveling over uneven or broken ground.

Two probe kits are used in mobile equipment that may operate in high side angle environments such as bulldozers or 4x4 vehicles. A second probe may be required if installed into a plastic header tank to provide an adequate ground circuit.

The Muirhead® Coolant Level Kits have a fail-to-safe design which triggers the alarm in the event of sensor failure or an open circuit in the signal wire.

All Muirhead® products are built to the rigid standards required for the demanding 24/7 operations of the mining industry. The Coolant Level Kits have proven themselves reliable in hundreds of applications both in underground mining and all types of surface mobile equipment.

APT	Heavy Duty	Light Duty	# of Probes	IP67 Controller	Delay Timer	LED Red Warning Light	Buzzer
11871	Y	-	1	Y	Y	Y	Y
11872	Y	-	2	Y	Y	Y	Y
11873	-	Y	2	Y	Y	Y	Y

ADDITIONAL DOCUMENTS

PRODUCT ONLINE

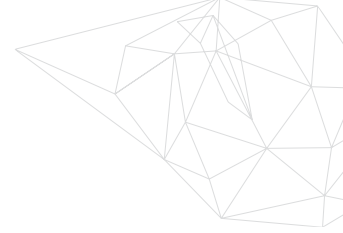


CUSTOMER DATASHEET



MANUAL





PRODUCT OUTLINE SHEET

ENGINE COOLANT LEVEL KITS

Variations

Kits 11871 & 11872 are supplied with 1/4 NPT size probes suitable for most heavy vehicles, while light duty kits are supplied with 1/8 NPT probes for thin wall or plastic radiator tanks.

Kits 11872 & 11873 are supplied with two level probes to be installed on either side of the radiator tank to prevent sloshing errors and allow vehicles such as bulldozers and 4x4 vehicles to operate at high side angles without triggering a false alarm.

Key Features

- ▶ A delay timer to prevent false triggering caused by fluid flowing away from the probe
- ▶ Hermetically sealed
- ▶ AC probe circuit to prevent electrolysis of the probe
- ▶ Inbuilt diagnostics
- ▶ Audible and visual warnings
- ▶ Multi-voltage 12–24 volts DC
- ▶ Environmentally sealed – IP67
- ▶ Ruggedised components for long life
- ▶ Fail-safe sensing circuit
- ▶ Reduces premature engine failure and costly engine repairs
- ▶ Extends engine and equipment component life
- ▶ Keeps operator aware of low coolant fluid levels
- ▶ Requires a conductive coolant for the fluid level sensor to function properly

Parts List

PARTS LIST – QUANTITY SUPPLIED

PART #	DESCRIPTION	11871 KIT	11872 KIT	11873 KIT
1739	MULTI VOLTAGE COOLANT LEVEL MODULE	1	1	1
11109	LED PILOT LIGHT, 6 –32 V, 2 TERMINAL RED	1	1	1
2205	PROBE COOLANT BRASS ¼ NPT	1	2	-
2006	PROBE COOLANT BRASS 1/8 NPT	-	-	2
1723	BUZZER WARNING ALARM CONSTANT OR INTERMITTENT SIREN 80 DB	1	1	1
0825	TERMINAL EYE INSULATED BLUE 5.3 MM	1	1	1
0821	TERMINAL BLUE FULLY INSULATED FEMALE SPADE	4	4	4
5902	LABEL COOLANT LEVEL	1	1	1

Quoting & Pricing

Coolant Level Kit 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 APT part numbers in the Parts List.

Item	Description	Document Number/Title
1	Data Sheet	RCT-SBMH1204004-Coolant-Level-Kits
2	Product Manual	M0925

PRODUCT OUTLINE SHEET

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Related Images



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