

DESCRIPTION

MST's Model 8063805 Low Pressure Alarm is a low pressure warning system utilized to alert an operator using compressed air for various pressure sensitive applications. This unit is also configured to be used for oxygen service, utilizing a special Viton O-Ring compatible for use with oxygen.

Model 8063805 is designed to allow the user to pre-select a low pressure alarm setting between 10 and 100 psi with a 1% repeatability accuracy. The Factory preset alarm setting is **50 psi**, which can be changed by the user if desired.

Model 8063805 operates from the included Continuous Operating Adapter (P/N 80247), or it can be operated from the replaceable internal 9 volt transistor battery for short periods of time. The unit also includes a provision to attach an optional external audible alarm/strobe (P/N 8066901) or strobe (P/N 8008503) to further assure the safety of the operator(s).



FIGURE NO. 1

GENERAL OPERATION

Model 8063805 is designed to sense a drop in pressure due to air compressor failure or some other failure that could cause a loss in pressure such as an air line rupturing, valve inadvertently being closed, etc. The unit, when mounted to any suitable airline via the 1/4" NPT pipe connection located at the base of the unit, will alarm once the pressure drops to the preset level. Both an audible and visual signal will indicate the pressure has decreased to the preset level or below. When the unit senses pressures above the alarm set point, a green LED indicates that the unit has power and is operating normally. This feature can also be used to test the function of the internal battery by unplugging the 80247 Continuous Operating Adapter and observing the green LED. A solid green light indicates ample power. This test can also be performed while the unit is in an alarm condition.

INSTALLATION AND ADJUSTMENT

Locate a suitable place to mount or install the Model 8063805 unit and secure by threading the 1/4" NPT connection to the proper mating pipe size. Use **ONLY THE FLAT AREA ON THE PRESSURE SWITCH** to secure and tighten the unit. **DO NOT OVER TIGHTEN - USE THREAD TAPE.** Should the factory pre-set level be satisfactory, the unit is ready to operate by pressurizing the system and turning the "ON-OFF" Switch to the "ON" position. If pressure is above preset alarm level setting, the green LED should illuminate. Should you need to adjust the switch to some other setting, carefully loosen the four (4) screws located at the four corners of the housing and carefully lift off front cover to expose the pressure switch and internal wiring/battery (See Figure No. 2). Locate the white adjustment dial located at the base of the pressure switch. Note: The numbers located on the adjustment dial are for approximation only - **DO NOT** assume the setting noted on the dial is the alarm set pressure. Adjust system pressure to alarm set point level desired and turn adjustment dial until the unit just activates the alarm. Slowly increase the system pressure above this setting until alarm stops. Slowly lower system pressure until alarm activates. Note system pressure, and if this is the desired alarm set point, the unit is ready for operation. Readjust if necessary and replace front cover taking care not to pinch any wiring between housing and cover.

WARNING: The Alarm Set Point should be verified prior to each use to assure the unit is operating properly and no one has tampered with the device.

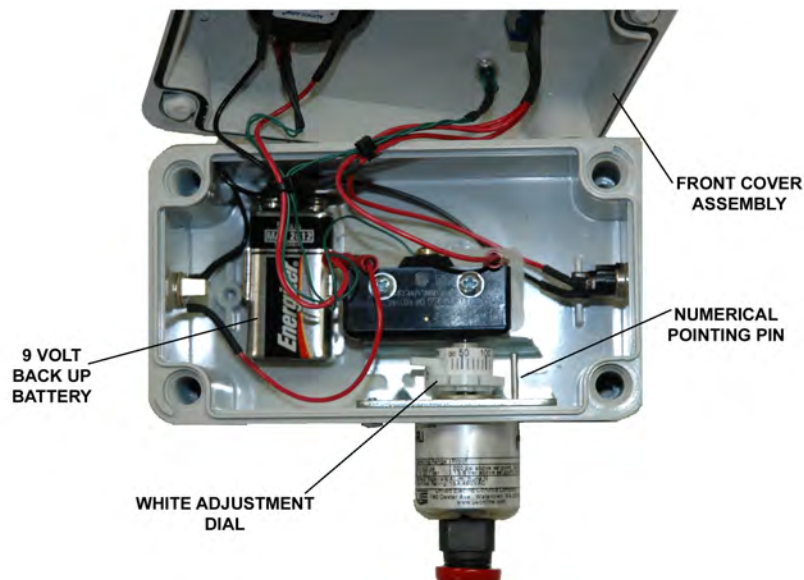


FIGURE NO. 2

SPECIFICATIONS

STORAGE TEMPERATURE:	-65 TO 160 F (-54 to 71 C)
AMBIENT OPERATING TEMPERATURE LIMITS:	0 to 160 F (-18 to 71 C)
SHOCK:	Set point repeats after 15 G, 10 millisecond duration
VIBRATION:	Set point repeats after 2.5 G, 5-500 CPS
SET POINT REPEATABILITY:	+/- 1% of adjustable range
ENCLOSURE MATERIAL:	ABS
PRESSURE CONNECTION:	1/4" NPT (male)
PRESSURE ADJUSTMENT RANGE:	10 to 100 psi (0,7 to 6,8 bar)
*OVER RANGE PRESSURE:	100 psi (6,8 bar)
**PROOF PRESSURE:	200 psi (13,8 bar)
DIMENSIONAL INFORMATION:	L = 5.2" (132 mm) W = 5.5" (140 mm) D = 2.6" (65 mm)
WEIGHT:	1 Lb (454 gm)
ELECTRICAL REQUIREMENTS:	Internal 9 Volt Transistor Battery 80247 Continuous Operating Adapter
PIEZO ALARM:	85 dB(A) @ 1 Ft. (0,3 M)
OPTIONAL ACCESSORIES:	8066901 REMOTE ALARM/STROBE (110 db(A)) with 20' wire/plug assembly 8008503 REMOTE STROBE with 20' wire/plug assembly

***Over Range Pressure:** The Maximum pressure that may be applied continuously without causing damage and maintaining set point repeatability.

****Proof Pressure:** The Maximum pressure to which the pressure sensor may be occasionally subjected, which causes no permanent damage. The unit may require calibration (e.g. start-up, testing).

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