"Save Your Breath With MST® MODERN SAFETY TECHNIQUES

11370 Breininger Road
P. O. Box 87
Hicksville, OH 43526
E-Mail Address: modsafe@bright.net

www.modsafe.com

(419) 542-6645
(800) 542-6646
888-MODSAFE
Fax: (419) 542-6475

DESCRIPTION

MST's Model 8063806 Low Pressure Alarm is a low pressure warning system utilized to alert an operator using compressed air for various pressure sensitive applications.

Model 8063806 is designed to allow the user to pre-select a low pressure alarm setting between 3 and 30 psi with a 1% repeatability accuracy. The Factory preset alarm setting is **8 psi** (0,5 bar), which can be changed by the user if desired.

Model 8063806 operates from a replaceable internal 9 volt transistor battery.

FIGURE NO. 1

GENERAL OPERATION

Model 8063806 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. An audible signal will indicate the pressure has decreased to the preset level or below. When the unit senses pressures above the alarm set point the alarm will stop. Battery strength can be tested by turning the device on without pressure applied to verify alarm functions.

INSTALLATION AND ADJUSTMENT

Locate a suitable place to mount or install the Model 8063806 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, nothing will occur. 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 and 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.

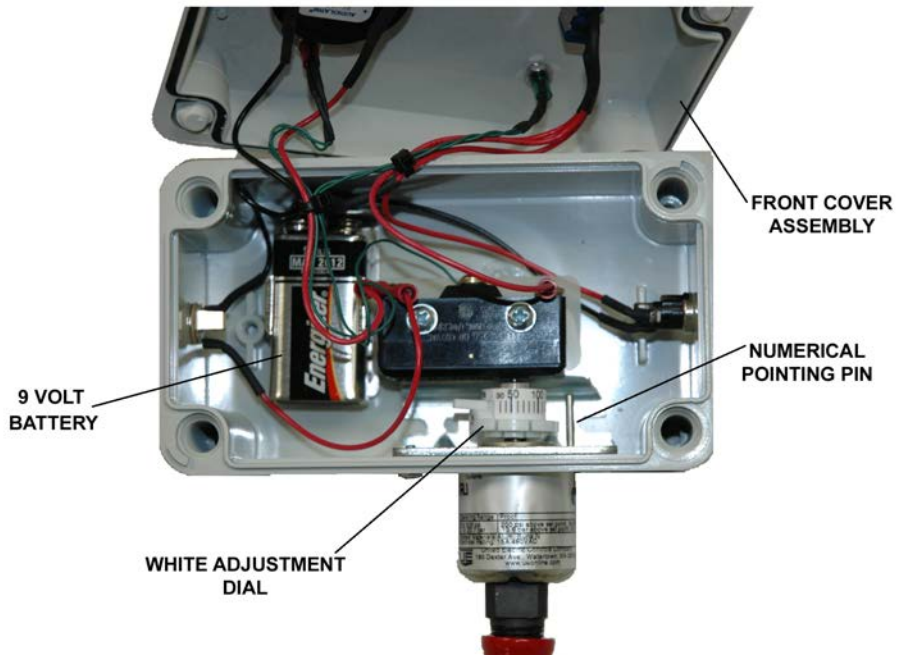

FIGURE NO. 2

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:	3 to 30 psi (0,2 to 2,0 bar)
*OVER RANGE PRESSURE:	50 psi (3,4 bar)
**PROOF PRESSURE:	230 psi (15,8 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
PIEZO ALARM:	85 dB(A) @ 1 Ft. (0,3 M)

***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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