

# Pressure Monitor System - Features

It is important to maintain positive pressure inside an operator's cab. Cab pressurisation helps prevent dust and harmful particulate from entering a sealed cab. The Sy-Klone Cab Pressure Monitor System is easy to operate and provides a continuous pressure reading on a digital display, which will alert the operator whenever the enclosed cab's air pressure drops below the pre-set pressure. This Pressure Monitor System is recommended for use with Sy-Klone's family of RESPA® Cab Air Quality Systems.

**The unit operates when the power is switched on.**

**LED Alarm:** The lighted indicator illuminates whenever the cab pressure drops below the preset minimum threshold for more than 10 seconds. This feature cannot be disabled. The 10 second delay allows for normal door opening and closing without setting off the alarm.

**Numeric Display:** This indicates the realtime pressure in the cab.

**Low Pressure Signal Alarm:** This feature is internal in all units. It can be activated or deactivated during set up. If this feature is activated, the alarm will sound when the cab pressure drops below the set pressure level for 10 seconds. It self-resets when the cab pressure returns to normal or when an off/on power cycle is completed.

**Silence Alarm Button:** Sometimes it is necessary to open a window or door for more than 10 seconds. This will set off the alarm. The alarm signal can be silenced by pushing the silence button. (Note: the light will remain on until pressure is restored.) The alarm mode is self-resetting when the cab pressure normalizes or with an off/on power cycle. The alarm is again armed and will sound after a 10 second pressure drop.

**Quick Connect Fitting:** The included air line attaches here.

**Electrical Wiring:** Connects to any convenient DC voltage connection between 9VDC and 36 VDC, so this unit can be installed on a 12V or 24V system.

**Low Voltage Pressure Signal Port:** The unit includes a 0 to 5 volt output signal that can stream realtime pressure information to an on-board computer. The 1/8" mono plug signal port puts out a low power voltage signal that varies with the pressure reading (see technical specifications for details).

Either available as part of the RESPA Revolution in a Box or separately.

## Specifications

**Operating Pressure Range:** 0 to 0.8 Inches H<sub>2</sub>O (0 to 200 Pa)

**Display Resolution:** 0.01 Inches H<sub>2</sub>O (1 Pa)

**DC Input Voltage** (self-resetting fuse): Minimum: 9V, Maximum: 36V

**Current Consumption:** Less than 30 mA

**Operating Temperature Range:** -40 F to 140 F (-40 C to 60 C)

**Low Voltage Pressure Output Signal:** 0V @ 0 Inches H<sub>2</sub>O (0 Pa)

5V @ 0.8 Inches H<sub>2</sub>O (200 Pa)

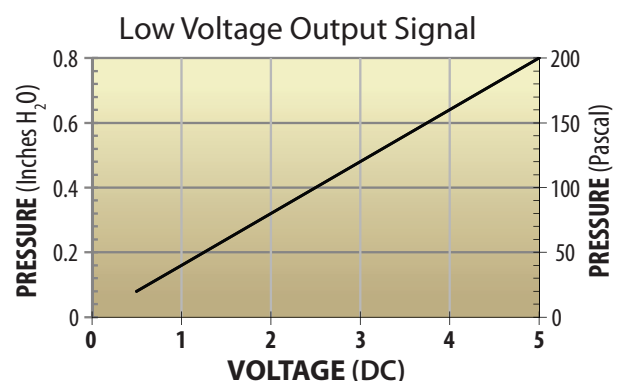
20 mA

**Enclosure Dimensions:** 3.50 x 2.52 x 1.39 inches (88.9 x 64 x 35.2 mm)

**Mounting Plate Dimensions:** 4.52 x 2.52 x 0.11 inches (114.8 x 64 x 2.8 mm)

**Weight:** 0.2 oz. (175 g)

**Air Tube:** 3/16 inches OD; 6 foot length (1.8 m)



This low voltage output signal chart can be used to calibrate real-time pressure data when sent to a computer or telemetric system. A more detailed version of the chart is available on [www.sy-klone.com](http://www.sy-klone.com).