



Cabin-Pressure Monitor Kit

Looking after our Operators

Hummingbird Electronics' Cab-Pressure Monitor provides real-time feedback to operators, letting them know when positive pressure in the cab is low. Low pressure in the cab can result in dust and other harmful materials entering the cab. The Cab-Pressure-Monitor has been engineered for simple installation and operation.

Powerful Performance

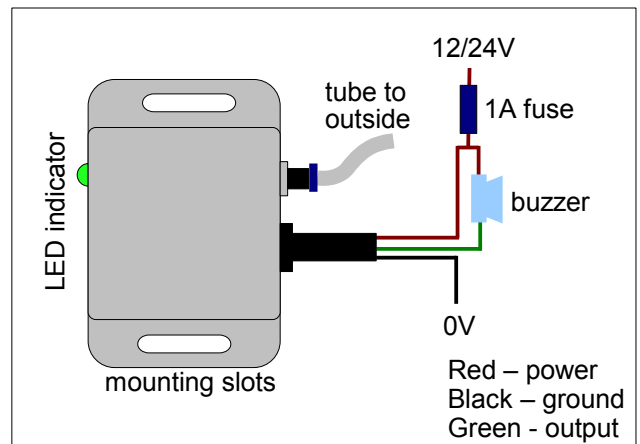
The Cab-Pressure Monitor measures pressure in the cab and compares it with atmospheric pressure. When the pressure in the cab drops to a level that is not high enough to prevent dust and other materials entering the cab, a normally green light on the unit turns red. A normally-open output is also pulled to ground to allow connection to an external system or for an additional indicator such as a sounder to be fitted. The external output is internally fused with a resettable fuse, allowing a maximum current of 250mA.

Using an internal rotary switch, the Cab-Pressure Monitor can be configured to alarm at pressures between 1mm and 9mm H₂O (0.098 to 0.88mbar). Based on customer feedback, the cab pressure alarm is supplied preset to 4mm H₂O.

A precision sensor allows pressure to be measured to a resolution of 0.05mm H₂O. Measured pressure is temperature compensated to allow operation over a wide range of temperatures. An extremely high sensor burst-pressure of 2bar means that door slams will not affect the sensor.



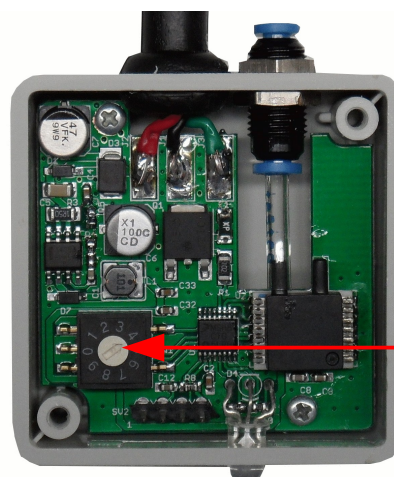
Push-fittings allow for quick installation of the tube to the outside. A spare bulkhead push-fitting is provided to enable sealed entry through the vehicle fire-wall if required. The unit is shipped with a Deutsch DT04 connector fitted. Mounting slots are provided on either side of the enclosure.



Typical installation

Technical Specifications

Part number	HMPS1000KIT
Device type	Cabin-Pressure Monitor
Operating pressure range	1 to 9mm H ₂ O
Sensor resolution	0.05mm H ₂ O
Sensor burst pressure	2bar (20394mm H ₂ O)
Temperature range	-40°C to 85°C
Input voltage	Minimum: 9V, Maximum: 36V
Current consumption	Less than 100mA
External output	250mA (internal resettable fuse)
Dimensions	50x50x22mm – baseplate 66mm
Tube specification	3mm OD, 1m length



Switch position 1 to 9 selects 1 to 9mm H₂O as the trigger point. Remove power before changing this switch.