Vent improves the integrity, reliability and safety of electronic components in harsh weather

W. L. Gore & Associates has expanded its line of adhesive vents with a new product specifically engineered for small enclosures, such as displays for electric bikes, mobility aids, and heavy duty equipment. With the smallest footprint in the GORE Protective Vent line, the VE80205 vent improves the integrity, reliability and safety of electronic components in harsh weather by equalizing pressure and reducing condensation.

Despite the limited amount of free space and air volume inside small enclosures, sudden changes in environmental conditions can cause internal pressure to build up, sometimes as much as 200 mbar (3 psi). This level of pressure differential can put significant stress on seals, eventually causing them to fail. The VE80205 vent rapidly equalizes the internal pressure by allowing air to flow freely into and out of the enclosure. In addition, the breathable membrane that is incorporated into the vent reduces condensation by allowing moisture vapor to escape from the enclosure. At the same time, this membrane protects the electronics from liquids and particulates by providing a durable barrier that meets IEC’s IP67 standard.

Available in standard packaging of five parts across a 41-millimeter wide carrier, the two-by-five millimeter (2.0 x 5.0 mm) VE80205 vent has a typical airflow of 103.62 ml/min/cm2 and is constructed with a robust adhesive that withstands challenging environments and adheres to different product surfaces. This durable construction enables the vent to be installed manually or with an automated process on either the internal or external wall of the enclosure without compromising its performance.

According to Jason Zambotti, Gore's North American product specialist for GORE Protective Vents, the VE80205 vent was engineered in response to the continuing addition of small motors and electronics to various means of personal transportation.

For more information about Gore's full line of venting products, visit www.gore.com/protectivevents [1].

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