



Q. What makes Meridian a “universal” gas detector?

A. Meridian features a common user interface, and a single detector head that accepts all sensor types, a single set of accessories and global approvals that allow it to be used anywhere in the world.

Q. Is the detector head suitable for all applications?

A. Meridian features a single detector head that works for all applications- electrochemical, and combustible (catalytic bead) sensors.

Q. Do I need to declassify the area before replacing the sensor?

A. No, due to Meridian’s intrinsically safe, plug-and play sensor design you can perform sensor replacements without powering down the instrument.

Q. What are the advantages of Meridian’s sensor technology?

A. Meridian’s sensors provide reliable and accurate detection through several key features: minimal drift (reliable performance even in harsh temperature and humidity environments), high specificity (reduced cross interference from other gases thus reducing the likelihood of a false alarm), digital ID (provides automatic recognition when sensors are replaced) and broader toxic gas detection (several ranges are available for each gas).

Q. Is Meridian SIL certified?

A. Meridian is suitable for use in SIL2 and SIL3 rated systems under the IEC 61508 standards as certified by TÜV Rheinland.

Q. How are sensors calibrated?

A. With the Meridian gas detector, you can calibrate a toxic sensor to a particular gas level and then make adjustments to the range later without having to re-calibrate the sensor for the new range. To optimize maintenance workload, you can calibrate sensors in the lab and set them to a default range. Upon installation, the range on the sensors can be adjusted to the requirements of the specific location.

Q. How many sensors can be attached to one Meridian unit?

A. Up to three sensors can be attached to a single instrument. This allows you to monitor for toxic and combustible gases from the same detector.

Q. What communication protocols does Meridian utilize?

A. Meridian supports industry standard protocols including: 4-20 mA analog, MODBUS, and Wired HART.

Teledyne Gas & Flame Detection quality assurance programmes demand the continuous assessment and improvement of all our products. Information in this leaflet could thus change without notification and does not constitute a product specification. For more information, please contact us or your company representative.



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