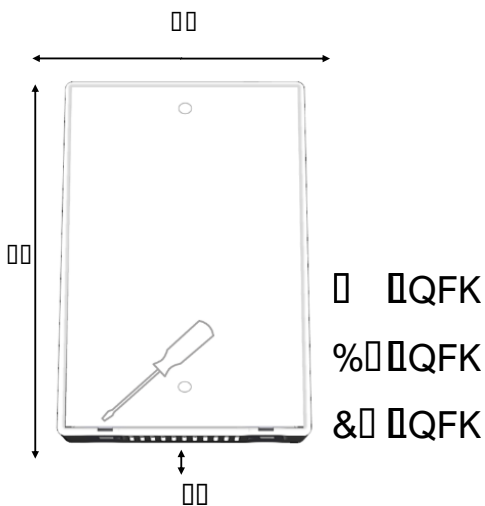


Technical Specification

| General | | | | | | | |
|---|--|-------|----------------|----------------|------------------------------|---------------------|--------------|
| Model: | Merlin Gas Detector TFT | | | | | | |
| Target Gases: | O2 | | | | | | |
| Size: (H x W x D) | 5.51 x 3.74 x 1.18" (140 x 95 x 30mm) | | | | | | |
| Housing Material: | ABS Polylac - PA765 | | | | | | |
| Mounting: | Safe Zone - Indoor use - Wall Mounted | | | | | | |
| Weight: | Max. 1.77oz (0.05kg) | | | | | | |
| User Interface | | | | | | | |
| Display: | 1.8" TFT | | | | | | |
| Screen Brightness: | Non-Adjustable | | | | | | |
| Visual Indicators: | TFT visual. Green: Normal; Yellow: Pre-Alarm; Red: Alarm | | | | | | |
| Audible Alarm: | >70dB @ 3.28ft (1m). Quiet conditions. | | | | | | |
| Buttons: | None | | | | | | |
| Language: | English | | | | | | |
| Power Supply | | | | | | | |
| Power Consumption: | 90mA Max @ 24vdc | | | | | | |
| DC Power: | 12-32 VDC - Nominal 24 VDC | | | | | | |
| Internal Fuse: | None | | | | | | |
| Equipment | | | | | | | |
| Overvoltage Category: | III | | | | | | |
| Pollution Degree: | 3 | | | | | | |
| I/O | | | | | | | |
| Relay: | Volt Free (Normally Closed / Common / Normally Open) 1x 30vdc 2A (Non-Latching) | | | | | | |
| Environmental | | | | | | | |
| Ingress Protection: | Not Formally Evaluated | | | | | | |
| Operating: | -10 ~ 50°C / 14 ~ 122°F 30 ~ 80% RH (non-condensing) | | | | | | |
| Storage: | -25 ~ 50°C / -13~122F° up to 95% RH (non-condensing) | | | | | | |
| Altitude Rating: | 2000m | | | | | | |
| Wiring | | | | | | | |
| Typical | #15AWG Power Pair; #18AWG Data Pair-Tinned copper. | | | | | | |
| Approvals | | | | | | | |
| Electromagnetic Compatibility and Electrical Safety | BS/IEC/EN 61010-1 EMC EN 50270 | | | | | | |
| Other | | | | | | | |
| Communication | RS485 MODBUS RTU | | | | | | |
| Gas Sensor | Indicating Range | Steps | Response (t90) | Recovery (t10) | Alarm: 1 (Pre alarm warning) | Alarm: 2 | *EOL (Years) |
| Oxygen (O ₂) | 0-30% V/V | 0.1 | <30s | <60s | ▼19.5% V/V | ▼18.5% V/V ▲23% V/V | 3 |



Area of coverage

Consider the coverage required and function of the area. Emphasis should be placed on airflow patterns and correct placement, not perceived detecting ranges. The target gas will only be identified when contact is made with the sensing element itself.

The AGSO2TFT monitor should be installed approximately 3-5ft from ground level.

Find out more

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