

AGSRTFT Datasheet

Refrigerant Gas Detector
 134a, 410a & 32



24VAC or DC
 Power Input



Standalone
 Detector or
 Used with an
 AGS Controller



Traffic Light
 Indicator Display
 Changes Color
 Dependent On Gas
 Levels



MODBUS
 Communications



Modern & Compact
 Design



Alarm Relay
 Dry Contact



Plug & Play
 Installation

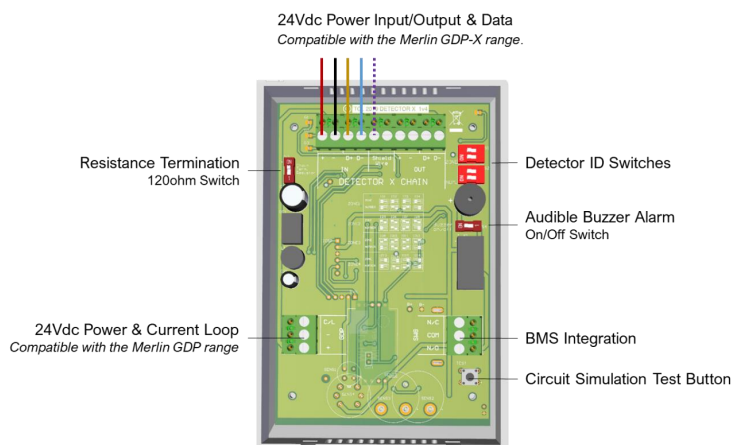


In-Built
 Audible Alarm

Product Overview

The TFT range of AGS detectors work in combination with the AGS Merlin range of Gas Detection panels and Utility Controllers. The AGSRTFT features an NDIR sensor for industrial and commercial indoor applications. Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

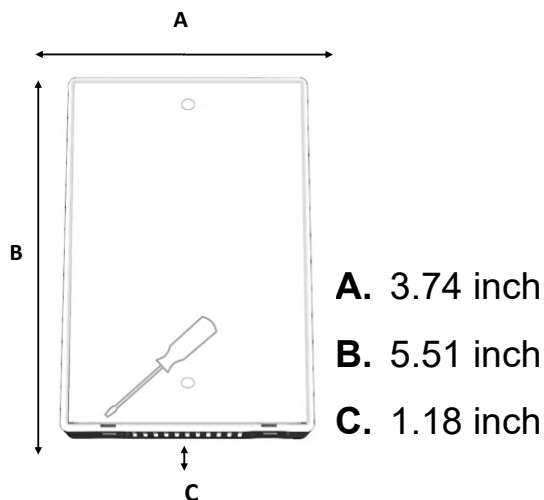
Popular Applications



Technical Specification

General	
Model:	Merlin Gas Detector TFT
Target Gases:	Refrigerant 134a, 410a & 32
Size: (H x W x D)	5.51 x 3.74 x 1.18" (140 x 95 x 30mm)
Housing Material:	ABS PolyIac - 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 ppm	Steps	Response (t90)	Recovery (t10)	Alarm: 1 (Pre alarm warning)	Alarm: 2	*EOL (Years)
NDIR							
R134a	175-5000	25	<60s	<60s	▲ 175 ppm	▲ 1000 ppm (10s Delay)	5
R410a	350-10000	50			▲ 350 ppm		
R32							



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 AGSRTFT monitor should be installed approximately 1ft from the ground level.

Find out more

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