AGS
AMERICAN GAS SAFETY

AGSHTFT
Datasheet

Hydrogen Gas Detector

24VDC Power Input

Detector should be used with an AGS Controller

Traffic Light Indicator Display Changes Color Dependent On Gas Levels

BMS & MODBUS Communications

Modern & Compact Design

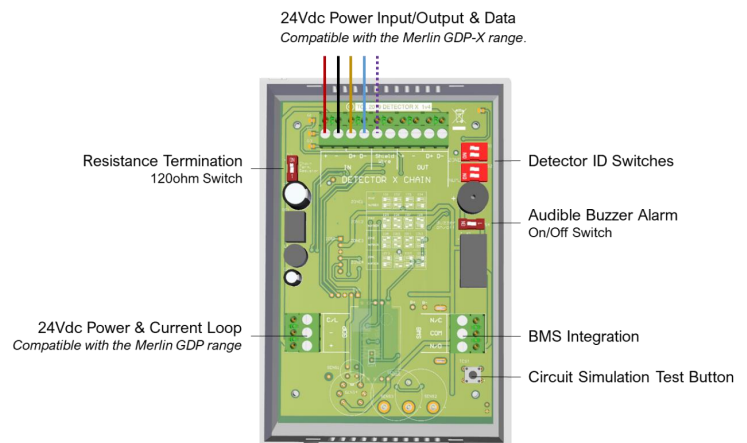**Alarm Relay Dry Contact**

Plug & Play Installation

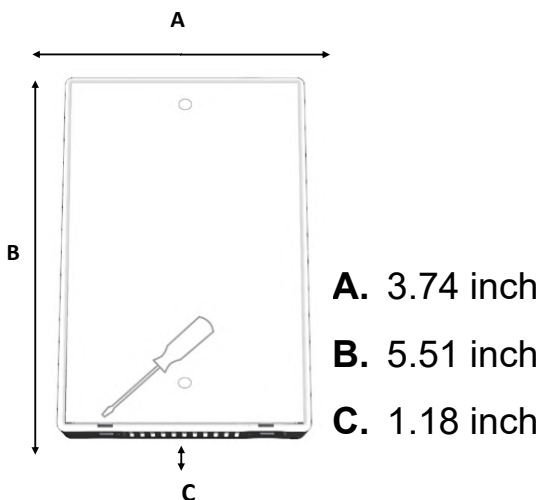**In-Built Audible Alarm**

Product Overview

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

Popular Applications

24Vdc Power Input/Output & Data
Compatible with the Merlin GDP-X range.

Resistance Termination
120ohm Switch

Detector ID Switches

Audible Buzzer Alarm
On/Off Switch

24Vdc Power & Current Loop
Compatible with the Merlin GDP range

BMS Integration

Circuit Simulation Test Button

Technical Specification

General	
Model:	Merlin Gas Detector TFT
Target Gases:	H
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)
Hydrogen (H)	0-20% LEL	0.1	<30s	<30s	▼8% LEL	▼10% LEL	10

A. 3.74 inch

B. 5.51 inch

C. 1.18 inch

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 AGSHTFT monitor should be installed approximately 1ft from ceiling.

Find out more

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