AquiTron MSR Range

AT-WSB

Stand Alone Controller For Refrigerant Gas Sensing







AT-WSB

Stand Alone Controller For Refrigerant Gas Sensing



The AquiTron AT-WSB standalone refrigerant gas sensor is a cost-effective and versatile solution for a variety of applications. It features a sounder beacon to raise immediate attention to any occupants within the area. Plus the sensor can also be connected to one of the AquiTron MSR panels for a centrally monitored system. The sensor can also be connected directly into a BMS using its output relays or to a third-party control system or external flashing beacon or extractor fan system.

The sensor can be part of your critical system for monitoring refrigerant gas leaks to ensure compliance to BS EN378, F-Gas regulations and BREEAM POL01 compliance

DESCRIPTION

The AT-WSB is used for measuring, monitoring and warning of hazardous gas concentrations in stand alone operation in conjunction with AT-DGC systems. The AT-WSB allows 1 AT-SC sensor.

FEATURES & BENEFITS

- Digital measurement value processing
- Data / measured values stored in the sensor board
- Allows connection for x1 AT-SC sensor
- Software & hardware according to SIL compliant development process
- Modular technology (plug-in and replaceable)
- IP65 when installed with housing
- Easy maintenance and calibration
- Serial RS485 interface with protocol for AT-DGC or Modbus
- 1x alarm relay with change-over contact, potential-free max. 30 Vac/dc, 0.5 A
- 1x fault relay, configurable as an alarm relay in addition, change-over contact, potential-free max. 30Vac/dc

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TECHNICAL INFORMATION

Power Options	Option 1) 100-240 Vac @ 50/60 Hz Option 2) 24 Vdc ± 20 %; reverse polarity protected
Operating Temperature	-30 °C TO +60 °C
Operating Humidity	15–90 % RH not-condensing
Dimensions	Option 1) 100-240 Vac Dimensions (WxHxD) 130 x 154 x 99 mm (Including Sensor) Option 2) 24Vdc Dimensions (WxHxD) 94 x 154 x 57mm (Including Sensor)
Cable Entry	2x M12/ 3x M20
Weight	0.6kg
Housing	RAL 7035 (Light Grey) Polycarbonate IP65
Digital Input	Potential-free contact for acknowledgment function (horn/latching mode of main alarm)
Alarm Relay/Fault Relay	x 1 Alarm x 1 Fault 30 V AC/DC, 0.5 A, potential-free, change-over contact (SPDT)
Serial Interface	Local bus 1-wire / 19200 Baud Field bus RS485 / 19200 Baud Tool bus 2-wire / 19200 Baud
Wire Connection	3 Pin Plug Connector Power Supply/Field Bus Screw-type terminals 0.25–2.5 mm2 Relays Screw-type terminals 0.25–1.3 mm2
Local Bus Output	5 Vdc, 250 mA max., overload, short-circuit & reverse-pol. protect.
Max Sensors	x 1 Sensor
Sensor Type	AT-SC
Flammability Classification	UL 94 V2
WAO Status LED/Buzzer	Red/yellow/green (alarm-fault-operation-service)
Acoustic Pressure	> 85 dB (A) (0.1 m distance)

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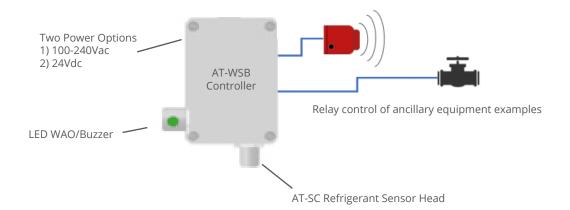
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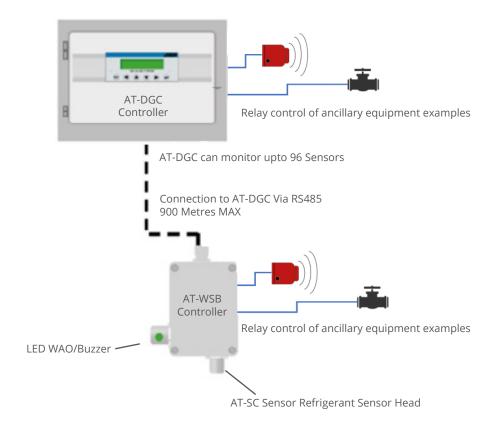




STAND-ALONE CONFIGURATION EXAMPLE



LARGE SYSTEM CONFIGURATION EXAMPLE



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APPROVALS (EUK

EMC Directives 2014/30/EU	Regulation of electromagnetic compatibility of equiment
Low Voltage Directive 2014/35/EU	Equipment within certain voltage limits provides a high level of protection for European citizens
IEC/EN 61010-1:2010	General saftey requirements for the following types of electrical equipment and accessories
EN 50271	Functional saftey and software realiability in gas detection systems
EN 50290 Type I	Standardisation of symmetrical, coaxial and optical cables used for infrastructure networks
IEC/EN 61508-1-3	Functional saftey of electical, electronic and programmable electronic (E/E/PE) safety systems
EN 50402	Systems for detection and measurment of combustible or toxic gases, vapours or of oxygen
IEC/EN 62990-1:Type SM	Performance requirements of detectors for toxic gases
EN 50104	Minimum requirements for electrical apparatus and measurement of combustible gases
EN 14624	Performance of portable locationg leak detectors and of fixed fas detectors for all refrigerants
BS EN 378	Requirements in the design, manufacture, construction, installation, operation, maintenance, repair and disposal of refrigerating systems and appliances regarding local and global environments

ORDERING INFORMATION

8081	AT-WSB-AV-230: Standalone Housing For AT-SC Sensors 230Vac A/V Module IP65 RAL7035 LT Grey 130x130x99mm
8082	AT-WSB-AV-24: Standalone Housing For AT-SC Sensors 24Vdc A/V Module IP65 RAL7035 LT Grey 94x130x57mm
8074	AT-MSR-PT (Portable Service Tool)

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