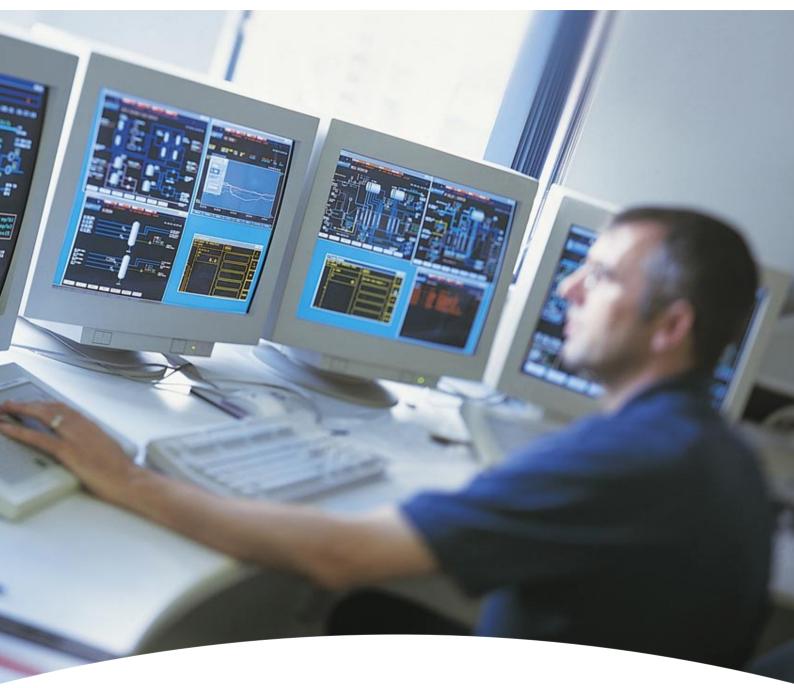# MDA Scientific
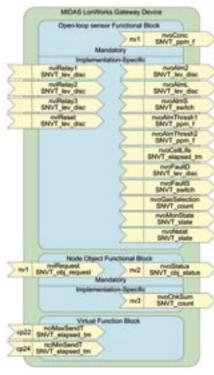# Midas® LonWorks® Interface Module

Honeywell

**Connects a Midas®
gas transmitter to
LonWorks® network**

Midas® LonWorks® Interface Module

Features:

- Compatible with existing life safety LonWorks® communication networks
- Small foot print module for ease of installation and DIN rail mounting capable
- Flexible connections to hook power and connections within a LonWorks® loop
- Broad range of diagnostics, data fields and real time readings
- Remote control of 3 programmable on board relays for lower cost control and annunciation options
- Gas transmitter can be replaced without further need for re-binding the detector neuron ID
- Service button to broadcast the neuron ID for ease of set up

An optional module that connects a MDA Scientific Midas® gas transmitter to a new or an existing LonWorks® life safety network.

A single connection point provides power and communications to both the LonWorks® module and the Midas® gas transmitter. A single easy access connection point provides power and communications to both the LonWorks® module and the Midas® gas transmitter. The Midas® LonWorks® Interface Module also enables a Midas® transmitter and pyrolyzer combination to be powered and connected to the LonWorks® network. Remote reset, local or remote relay activation and a complete set of diagnostic outputs are standard features.

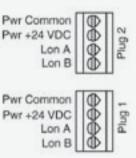| Module Dimensions	Midas® LonWorks® Interface Module
Size (without Midas® unit)	120mm (H) x 100mm (W) x 35mm (D)
Weight (without Midas® unit)	1.0 Kg
Power Requirements	
Operating Voltage	24V DC Nominal +/-15%
Output to Midas transmitter	48V DC via proprietary Power over Ethernet (PoE) connection
Power Consumption	
LonWorks Module	~ 3.0 W
Module with Midas	~ 8.0 W
Module with Midas & Pyrolyzer	~ 15.0 W
Outputs	
Visual	LED indicates network status
Digital Communications	LonWorks® digital communication within a 78 Kbps FTT sub-loop system
Relays	Local activation of three (3) on board Midas® relays for fault and alarm or remote activation of 3 relays using LonWorks®
Inputs	
Service test mode button	Broadcasts the LonWorks® neuron ID
Certification & Specification	
RFI EMC	CE marked: meets EN 5022:1998 Ammendment A2 and EN 5024 (24V supply)
Operating Temperature	
Module with Midas unit	0°C (32°F) to 40°C (104°F)
Wiring Requirement	
Power	16 AWG Maximum 1.5mm²
LonWorks® Transceiver	FT-10
Warranty	
Module	1 year

Ordering Information   Midas® LonWorks® Interface Module   MIDAS-T-LON
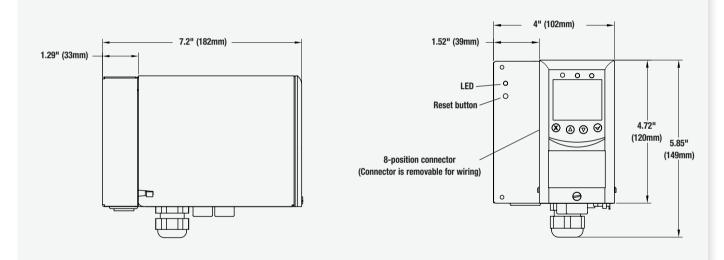
General Specification

Wiring Diagram

Power and LonWorks® connections can be reversed for ease of installation. Redundant plug type connectors facilitate easy wiring in the LonWorks® loop.

Pwr Common
Pwr +24 VDC
Lon A
Lon B
Plug 2

Pwr Common
Pwr +24 VDC
Lon A
Lon B
Plug 1

Dimensions

7.2" (182mm)

1.29" (33mm)

4" (102mm)

1.52" (39mm)

LED

Reset button

8-position connector
(Connector is removable for wiring)

4.72" (120mm)

5.85" (149mm)

Installation

100mm

SERVICE

04-C8-E3-DE-59-00

MDA Scientific
Midas
LonWorks Interface
Module

Honeywell

120mm

Short length cross over shielded Ethernet connector cable (MIDAS-A-040) is supplied as standard. Mounting bracket to install Midas® on the front panel of the LON Interface Module is provided as standard. Mounting screws to connect LON Interface to a vertical surface are not provided and must be sourced separately.

MDA Scientific has developed a sophisticated range of highly sensitive gas detection equipment, designed to perform in ways that define new gas detection performance levels providing total solutions to protect people, improve production efficiency and reduce costs.

The MDA Scientific range of toxic gas detection

Single Point Monitor

The SPM overcomes the difficulty of ensuring that basic units for toxic gas monitoring are accurate and free of interference from environmental conditions or other chemicals, by using our interference-free Chemcassette® detection technique. The SPM can also be used outdoors and has heating and cooling options to suit environmental conditions.

Vertex

Vertex provides a flexible, cost-effective monitoring solution that can adapt to changing needs. Using advanced Chemcassette® software and optics technologies, Vertex can monitor from 8 to 72 points of gas detection, up to 9 gas families and more than 40 gases.

Model IR-148

The Model IR-148 detects solvents and gases such as HCFCs, HFCs and PFCs that are otherwise difficult to monitor without the effect of cross-interfering gases.

Midas®

Midas® can measure virtually all the toxic and flammable gases found in manufacturing and storage applications. The range is in fact a universal transmitter design that differs significantly from the Lifeline II range which had separate passive, extractive and pyrolyzer variants with different footprints and performance characteristics.

CM4

CM4 provides monitoring of toxic gases at four locations, up to 300 feet away – detection of ppb levels of toxic gases at multiple points. Points are monitored continuously. Leaks are detected within seconds.

IN-USA

The IN-USA range of microprocessor controlled analyzers detect trace amounts of ozone (O_3) gas. Systems can be configured with relays and different signal output options for integration within life safety networks. High levels of signal sensitivity and resistance to false alarm are enabled by the use of advanced ultraviolet (UV) lamp detection systems.

Chemcassette®

The Chemcassette® detection system is the heart of an MDA toxic gas monitoring system. Chemcassettes® use a dry reagent medium to collect and analyze air to detect gas leaks. When the Chemcassette® is exposed to a target gas, it changes color in direct proportion to the concentration of gas present. MDA Scientific monitors read color intensity changes and determine the gas concentration by comparison to a known gas response pre-programed into the instrument.

Find out more

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