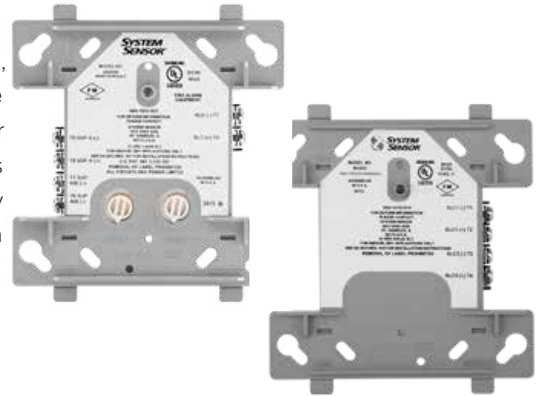


500 SERIES INTELLIGENT MODULES

The Honeywell intelligent module products are designed to meet a wide range of applications.

Monitor and control modules can be used to supervise and activate sounders, strobes, door closers, pull stations, waterflow switches, conventional smoke detectors, and more. Each module is rigorously designed and tested for electromagnetic compatibility and environmental reliability, in many cases exceeding industry standards. Modules are addressed with easy-to-use rotary code switches. Full size modules mount in standard 4 in × 4 in × 2 1/8 in junction box. Wiring terminals are easily accessible for troubleshooting..



FEATURES AND BENEFITS



- SEMS screws for easing wiring
- Panel controlled status LED (except M501M)
- Analog communications
- Rotary address switches (except M500X)
- Low standby current
- Mounts in standard 4" junction box

M500M Monitor Module, M501M Mini Monitor Module

System Sensor monitor modules provide an interface to contact devices, such as security contacts, waterflow switches, or pull stations. M501M and M500DM are capable of Class B supervised wiring to the monitored device. M500M is capable of Class A supervision. Conventional 4-wire smoke detectors can be monitored through their alarm and trouble contacts, wired as an initiating loop to the module. In addition to transmitting the supervised state of the monitored device (normal, open, or short), the full analog supervision measurement is sent back to the panel. This allows detection of impedance changes in the supervised loop to the monitored device. The M500DM module is capable of monitoring two separate Class B circuits simultaneously, making it ideal for waterflow tamper switch and flow switch monitoring. The compact size of the M501M module allows it to fit inside devices or junction boxes behind devices.

M500X Isolator Module

The M500X Isolator Module is an automatic switch that opens when the line voltage drops below four volts. Isolator modules should be spaced between groups of sensors or modules in a loop to protect the rest of the loop. If a short occurs between any two isolators, then both isolators immediately switch to an open circuit state and isolate the devices between them. The remaining units on the loop continue to fully operate. The number of devices that can be installed between isolator modules varies depending on the device type. Please see your module's manual for more information.

M502M Zone Interface Module

The M502M Zone Interface Module allows intelligent panels to interface and monitor 2-wire conventional smoke detectors. All 2-wire detectors being monitored must be UL or ULC compatible with the module. The M502M module is addressed through the communication line of an intelligent system. It transmits the status of one zone of 2-wire detectors to the fire alarm control panel. Status conditions are reported as normal, open, or alarm. The interface module supervises the zone of detectors and the connection of the external power supply.

M500S Control Module

The M500S Control Module provides supervised monitoring of wiring to load devices that require an external power supply to operate, such as horns, strobes, or bells. It is capable of Class A and Class B supervision. Upon command from the control panel, the M500S module will disconnect the supervision and connect the external power supply across the load device. The disconnection of the supervision provides a verification to the panel that the control relay actually turned on. The external power supply is always relay isolated from the communication loop, so that a trouble condition on the power supply will never interfere with the rest of the system. Full analog measurement of the supervised wiring is transmitted back to the panel and can be used to detect impedance changes or other special test functions.

M500R Relay Module

The M500R Relay Module contains two isolated sets of Form C contacts, which operate as a DPDT switch. The module allows the control panel to switch these contacts on command. No supervision is provided for the notification appliance circuit.

SPECIFICATIONS

M502M SPECIFICATIONS

ITEMS	SPECIFICATIONS
STANDBY CURRENT	300 μ A max @ 24 VDC (one communication every 5 sec. with LED enabled)
EXTERNAL POWER SUPPLY	18 - 28 VDC (100 mV ripple max.)
END-OF-LINE RESISTANCE	3.9 k Ω (included)
EXTERNAL SUPPLY STANDBY CURRENT	11.5 mA @ 24 VDC (nominal)
EXTERNAL SUPPLY ALARM CURRENT	80 mA @ 24 VDC (nominal)

M500R SPECIFICATIONS

ITEMS	SPECIFICATIONS
STANDBY CURRENT	300 μ A max @ 24 VDC (one communication every 5 sec. with LED enabled)
LED CURRENT	5.5 mA (with LED latched on)
RELAY CONTACT RATINGS	2.0 A @ 25 VAC (PF=.35), non-coded 3.0 A @ 30 VDC resistive, non-coded 2.0 A @ 30 VDC resistive, coded 0.46 A @ 30 VDC (L/R=20ms), non-coded 0.7 A @ 70.7 VAC (PF=.35), non-coded 0.9 A @ 125 VDC resistive, non-coded 0.5 A @ 125 VAC (PF=.75), non-coded 0.3 A @ 125 VAC (PF=.35), non-coded

GENERAL SPECIFICATIONS

ITEMS	SPECIFICATIONS
OPERATING VOLTAGE	15 - 32 VDC
COMMUNICATION LINE LOOP IMPEDANCE	40 Ω max.
TEMPERATURE RANGE	0° - 49°C
RELATIVE HUMIDITY	10% - 93% noncondensing
SHIPPING WEIGHT	M501M: 37 g Others: 196 g
DIMENSIONS	M501M: 2.7 in W x 1.7 in H x 0.5 in D Others: 4.275 in W x 4.675 in H x 1.4 in D

M500X SPECIFICATIONS

ITEMS	SPECIFICATIONS
STANDBY CURRENT	450 μ A max.
ISOLATION IMPEDANCE	2.25 k Ω - 2.9 k Ω
FAULT DETECTION DELAY	250 ms min.
FAULT DETECTION THRESHOLD	4 Volts
LINE RESTORATION THRESHOLD	7 Volts

M500DM SPECIFICATIONS

ITEMS	SPECIFICATIONS
STANDBY CURRENT	750 μ A max. @ 24 VDC (one communication every 5 sec. with 47k EOL)
ALARM CURRENT	970 μ A max. (one communication every 5 sec.); 6mA (with LED latched on)
END-OF-LINE RESISTANCE	47 k Ω (two included)

M500M, M500S, M501M SPECIFICATIONS

ITEMS	SPECIFICATIONS
STANDBY CURRENT	400 μ A max @ 24 VDC (one communication every 5 sec. with 47k EOL); 600 μ A max @ 24 VDC (one communication every 5 sec. with EOL<1k); 5.5 mA (with LED latched on)
END-OF-LINE RESISTANCE	47 k Ω (included)

M500FP SPECIFICATIONS

ITEMS	SPECIFICATIONS
STANDBY CURRENT	2.4 mA max. (one communication every 5 sec. with LED enabled)
COMM. LINE CURRENT	4.0 mA max. (no communication, LED off, 1200 Ω phone)
ACCEPTABLE PHONE RESISTANCE	1200 Ω (nominal)
END-OF-LINE RESISTANCE	3.9 k Ω (included)

AGENCY LISTINGS AND APPROVALS

The listings and approvals below apply to the devices specified in this document. In some cases, certain devices or applications may not be listed by certain approval agencies, or listing may be in process.

SAI GLOBAL : LICENSE
SMKH25321



For more information

buildings.honeywell.com

Honeywell Building Technologies

9 Columbia Way

Baulkham Hills NSW 2153

Phone (Australia): 1800 220 345 (Toll Free)

Phone (New Zealand): 800 220 345 (Toll Free)

This document is not intended for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

Doc- 14- 021 | RevA | 09/20
© 2020 Honeywell International Inc.

THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell