

SIEMENS

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Peripheral and Detection Devices Initiating Device

Intelligent Device Interface Mini Module Model XTRI-M

Architect & Engineer Specifications

- Siemens **ISOtechnology™**
 - Provides "True Class-X" operation meeting NFPA 72 SLC field wiring requirements
 - Supports 252 **ISOtechnology** ready devices per loop, and in mixed mode up to 30 devices between isolated devices
- Low current draw
- Restriction of Hazardous Substances (RoHS) compliant
- Compact size allows mounting in single-gang box behind equipment
- Supervises and controls normally open (N.O.) and normally closed (N.C.) contacts
- Polarity insensitive (in non-isolation mode) via **SureWire™** technology:
 - Modern technology supports comprehensive system and interface communication
- Device Programmer | Test Unit programs and verifies address, as well as tests device functionality
- UL864 | UL2572 | UL2017 Listed; CAN/ULC-S527 & CAN/ULC-S576 Listed - File S24304, Vol. 3

Product Overview

The Siemens – Fire Safety Intelligent Interface Module (Model XTRI-M) is designed to provide the means of interfacing direct shorting devices to the fire-alarm control panel (FACP) loop circuit. The module uses one (1) address on the loop.

Each XTRI-series interface module provides the "built-in" **ISOtechnology** feature - intelligent dual isolation meeting NFPA 72 Class X (Style 7) wiring requirements. Up to 252 isolation ready devices per loop and in mixed mode a maximum of 30 non-isolated devices between isolated devices (wired in polarity-insensitive mode). Additionally, the devices between isolators can either be 'H'-series or the more contemporary 'X'-series detection devices.

Model XTRI-M is designed to supervise and control a N.O. or N.C. contact, and reports the contact status to the FACP.

Specifications

Model XTRI-M incorporates **ISOtechnology** – the configurable, built-in dual isolator feature. Additionally, an XTRI-series interface module supports True Class-X operation meeting current NFPA 72 SLC performance requirements for short circuits while providing reliable alarm communication with the Siemens FACP.

The isolation feature on a Model XTRI-M Mini Module provides the location of the 'Trouble' (fault) command sent to the FACP. When a short occurs, the panel can identify the fault automatically. Concurrently, the module recognizes the location of the fault (in front of the device or behind the device).

Overall, **ISOtechnology** protects and maintains system communications while also significantly improving the diagnostic capability to allow simple location of the problem, including a wire to wire short.

Each Mini Module is configurable by the FACP in an isolator (polarity sensitive) or non-isolator (polarity insensitive) mode. When a XTRI-M module is configured as an isolator, it may serve a dual purpose by simultaneously functioning as an input / output device and an isolator.

Advanced troubleshooting is provided by the FACP that is interfacing with Model XTRI-M. That panel can even identify when a Model XTRI-M is configured as an isolator, but that same Mini Module is wired incorrectly in a polarity-insensitive mode.



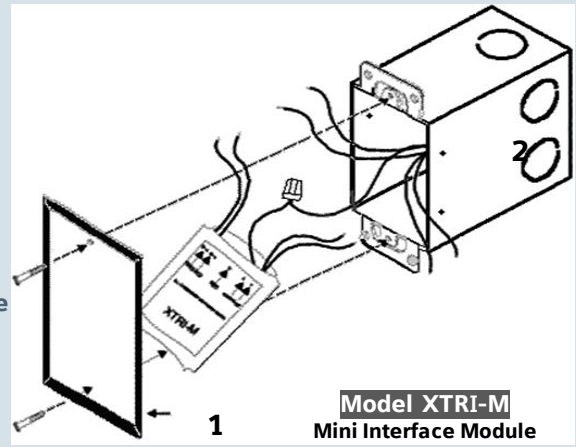
Model XTRI-M
Mini Interface Module



Notes:

Each Mini Module (Model XTRI-M) mounts directly to a user-supplied, single-gang switch box. Connect the appropriate wires using wire nuts. Tuck the Mini module (XTRI-M) inside the UL / ULC Listed / recognized electrical box and dress the wiring as required.

1. Blank, single-gang plate
2. Single-gang switch box (user supplied)



Operation

Field-Device Programmer / Test Unit

Each Model XTRI-M Mini Module is programmed with the Siemens field-device programmer / test unit (Model DPU), which is a compact, portable and menu-driven accessory for electronically programming and testing Siemens peripheral modules and devices promptly and reliably. For instance, the field technician selects the accessory's program mode, and enters the desired address.

Model XTRI-M is connected to Model DPU with the programming cable provided with the tester. This programming cable (P/N 110-694927) utilizes two (2) alligator clip connectors, to attach to the XTRI-M.

NOTE: Since the Mini Module (Model XTRI-M) is an advanced initiating device, the latest Model DPU firmware update is required.

Model DPU eliminates the need for cumbersome, unreliable mechanical programming methods (e.g. – dials and rotary switches) and reduces installation and service costs by electronically programming and testing the module prior to installation. When set in 'test' mode, Model DPU will perform a series of diagnostic tests without altering the address or other stored data, allowing technicians to determine if the module is operating properly.

Each field-device programmer / test unit operates on AC power or rechargeable batteries, providing flexibility and convenience in the programming / testing of fire-safety equipment from practically any location. Additionally, with the use of a Model DPU unit, there is no longer a cause for concern with any vibration, corrosion and other deteriorating conditions that could negatively affect any electro-mechanical-addressing mechanism.

Application Data

Each Mini Module (Model XTRI-M) has five (5) flying leads that are wired with user-supplied wire nuts for connection to an addressable circuit with a compatible Siemens FACP.

When using a Siemens compatible FACP, Model XTRI-M may be used along with Siemens Model 'H'-series intelligent detectors; Model 'HMS'-series addressable manual stations, or any other 'H'-series addressable intelligent module (e.g. Model HZM or Model HCP). **Additionally, the X-series modules are compatible with all Desigo and Cerberus Pro detectors and peripherals on the same circuit.**

Interspersing any 'X'-series and 'H'-series module / device on the same loop is possible. The only exceptions are the Siemens Isolation Module (Model HLIM), as well as the Siemens Model SBGA-34 audible base.

NOTE: Refer to installation manual: **P/N – A6V101055487** to ensure Model XTRI-M compatibility with the Siemens FACPs intended for use in the given application.

Temperature and Humidity Range

XTRI-M intelligent interface modules are UL Listed | ULC Listed.

Environmental operating conditions for each Mini Module is 32°F (0°C) to 120°F (49°C) with a relative humidity of no greater than 95%, non-condensing.

Technical Data		
OPERATING VOLTAGE RANGE:		13VDC – 32VDC
RELATIVE HUMIDITY:		0 – 95% (non-condensing)
'ACTIVE' OR 'STANDBY' CURRENT, MAX.:		500µA
LINE SIZES	AMERICAN WIRE GAUGE (AWG)	14 AWG, max. 18 AWG, min.

Details for Ordering		
MODEL OR TYPE	PART NUMBER	PRODUCT
XTRI-M	S54370-B4-A1	'Class X' Mini Input, Intelligent Device Interface Module (with built-in isolator)
DPU	500-033260	Device Programmer / Test Unit

NOTICE – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

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