SIEMENS

Data Sheet
Fire Safety Products

HTRI-Series Interface Modules

Models HTRI-D/-DZ, HTRI-R/-RZ and HTRI-S/-SZ (and USCG-HPLATE for Marine installs)

ARCHITECT AND ENGINEER SPECIFICATIONS

- Interfacing and supervising normally open (N.O) or normally closed (N.C) contacts
- Integral single-pole, double-throw (SPDT) relay on Model HTRI-R | -RZ (up to 4 amps)
- Dual input on Model HTRI-D | -DZ, using a single address
- Polarity insensitive with *SureWire*™ technology
- Dynamic supervision
- Two-wire operation
- Multi-color light-emitting diode (LED) indicates system status:
  - GREEN | AMBER | RED
- Mounts in a 4-inch (10.2 cm.) square, 2–¼" (5.7 cm.) deep single-gang or double-gang back box
- Easy front access to programming port and wiring terminals
- Comes with 5"–*x*– 5" (12.7 –*x*– 12.7 cm.) plastic faceplate
  - Separate metal cover plate required for use in Marine installations
- Electronic address programming is easy and dependable
- Device Programmer / Tester (Model DPU) programs and verifies address of the device and tests for proper functionality

- Electronic address programming is easy and dependable
- ®UL Listed & ®ULC Listed; FM, CSFM and NYCFD Approved

Product Overview

The Siemens — Fire Safety HTRI-series Intelligent interface modules are designed to provide the means of interfacing direct shorting devices to the fire-alarm control panel (FACP) loop circuit.

The HTRI-series modules provide the most advanced method of address programming and supervision on the market — combined with sophisticated control panel communication. Each HTRI-series interface module incorporates a microcomputer chip, and each interface module achieves the state of an `intelligent device' through its microcomputer-chip technology, combined with its sophisticated, bi-directional communication capabilities with the FACP.

Specifications

The Siemens Mode HTRI-series intelligent interface modules are available in three (3) types: Model HTRI-D | -DZ, as well as Models HTRI-S | -SZ and HTRI-R | -RZ, which are both designed to monitor a (N.O) or (N.C) dry contact. The interface module reports the status of the (N.O) or (N.C) contact to the control panel.

Model HTRI-S | -SZ can only monitor and report the status of the contact, while Model HTRI-R | -RZ incorporates an addressable `Form C' relay.

The Model HTRI-R | -RZ relay and contact device input are controlled at the same address. For the FACP, the relay and input contact can be controlled as a separate function. The relay is typically used where control or shunting of external equipment is required.

The Model HTRI-D | -DZ is a dual-input module that is designed to supervise and monitor two (2) sets of dry contacts. Model HTRI-D | -DZ only requires one (1) address, but responds independently to each input. Model HTRI-D | -DZ is ideal for monitoring a water-flow switch and its respective valve tamper switch.

Model HTRI-D | -DZ flashes twice — once for each address, and Model HTRI-R | -RZ LED indicates a change of state in the relay. The device's microcomputer chip has the capacity of storing, in memory, identification information; as well as important operating-status data.

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Specifications (continued)

Each Model HTRI device has a multi-color LED that flashes GREEN when operating in Normal; AMBER if unit is in *Trouble* condition, and RED to indicate a change of state.

Field-Device Programmer – Model DPU

Siemens — Fire Safety innovative technology allows HTRI-series intelligent interface modules to be programmed via the Device Programming / Test Unit: a compact, portable and menu-driven accessory that makes programming and testing an interface device faster, easier and more dependable than previous methods.

The programmer / tester eliminates the need for mechanical addressing mechanisms, such as: program jumpers, DIP switches or rotary dials, since Model DPU electronically sets the HTRI-series interface address into the non-volatile memory of the interface microcomputer-chip.

Vibration, corrosion and other conditions that deteriorate mechanical addressing mechanisms are no longer a cause for concern.

The HTRI-series is fitted with screw terminals for connection to an addressable circuit, and is fully compatible on the same Siemens FACPs with Siemens Model `H'-series intelligent detectors; Model `HMS'-series addressable manual stations, or any other addressable intelligent modules (e.g. — Model HZM | -Z or Model HCP | -Z).

Temperature and Humidity Range

Model HTRI-series intelligent interface modules are ®UL Listed. Environmental operating conditions for HTRI-D | -DZ, HTRI-R | -RZ and HTRI-S | -SZ modules are 32°F (0°C) to 120°F (49°C) with a relative humidity of no greater than 93%, non-condensing.

Electrical Ratings

Current Draw (Active or Standby)	1.3mA

Relay Ratings, Model HTRI-R | -RZ

Resistive:	4 Amps, 125 VAC
	4 Amps, 30 VDC

Electrical Ratings

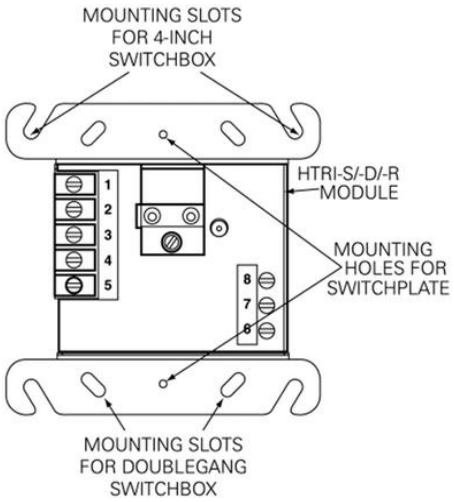
Relay Ratings, Model HTRI-R | -RZ – (cont.'d)

Inductive:	3.5A, 120 VAC (0.6P.F.)
	3.0A, 30 VDC (0.6P.F.)
	2.0A, 120 VAC (0.4P.F.)
	2.0A, 120 VAC (0.35P.F.)
	2.0A, 30 VDC (0.35P.F.)

Mounting Diagram

Models HTRI-D | -DZ, HTRI-R | -RZ and HTRI-S | -SZ mount directly into a 4-inch (10.2 cm.) square, 2-¼" (5.7 cm.)–deep box back box, or to a user-supplied double-gang back box. A 5" (12.7 cm.) square, off-white faceplate is included with each HTRI-series module.

NOTE: For Marine installations, a metal cover faceplate (Model USCG-HPLATE) is available separately. The faceplate must be used to protect Siemens HTRI-series interface modules from receiving radio-frequency interference (RFI).



Details for Ordering

Model	Part Number	Description
HTRI-R	500-033300	Single Input Module with Relay
HTRI-RZ	S54322-F12-A1	Single Input Module with Relay [C.O.O.+ – USA]
HTRI-D	500-033360	Dual Input Module
HTRI-DZ	S54322-F10-A1	Dual Input Module [C.O.O.+ – USA]
HTRI-S	500-033370	Single Input Module
HTRI-SZ	S54322-F13-A1	Single Input Module [C.O.O.+ – USA]
USCG-HPLATE	S54319-F22-A1	*Metal Cover Plate for HTRI Series Interface Modules

+ *denotes (C)ountry (o)f (O)rigin*

* *denotes for required use with Marine-only installations / applications*

Notice: This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.

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