SWC

Create Vital Connections

Wilshire Hills III- Area of Rescue

- A project cutsheet prepared for -

Wilshire Hills III

Tuesday, 10 December 2024

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Size:
- Face: 16.11" H x 14" W x 3" D
- Back Box: 15.625" H x 12" W x 3.06" D

Style:
- Powder coated steel enclosure
- Flush mount
- Twist lock closure for use with Fireman's lock (not provided)
- Coil cord

Features:

- Use with up to 5 Call Boxes on the same telephone line
- Run twisted and shielded 4 wire set from each Call Box to Base Station unit and one standard phone line to outside world
- Can be installed on a VoIP phone system when used with our 2100-VoIP Interface Device
- Can be used as an Intercom System when used with our 2100-LINESIM Line Simulator
- Easy to use push buttons
- Passively monitor communications between Call Boxes and outside world via the LEDs:
    1. Solid lit LED indicates there is an emergency call in progress
    2. Slow blinking LED indicates there is a call on hold
- Audible alert when Call Box initiates call, silenced when call is joined from Base Station
- Includes relay contact that trips if any Call Box has been activated
- Includes connections for (2) Sub-Stations
- The Base Station is able to:
    1. Call into all or individual Call Boxes as needed
    2. Join existing conversations between Call Boxes and outside world
    3. Hang up and original conversation will continue
    4. Terminate outside world so it is only talking to the Call Boxes or terminate the call with all parties entirely
- Volume control handset meets ADA requirements
- Designed for either 120vac or 24vdc power
- Built-in battery backup recharges from 120vac or 24vdc power (allows for a minimum of 4 hours talk time upon loss of power)
- Telephone Line Voltage: 24v-48v
- Meets all IBC, ADAAG, and NFPA Code requirements
- 3 year warranty

- **Model: 2500-PWR24**
- **Size: 9.275" H x 8.125" W x 3.75" D**
- **Shipping Weight: 11 lbs.**
- **24vdc, 9 Outputs**
- **Install up to (5) phones per output**
- **4 Amp (100VA) Supply Current**
- **Integral Surge Protection**
- **Underwriters Laboratory (UL) recognized**
- **Individual LED power indication**

Face Plate Size: 9-1/2" H x 7-1/2" W
Back Box Size: 8" H x 6" W x 3" D
Style: Brushed Stainless Steel, Flush Mount
Options: Strobe Interface & Relay, Mushroom Push Button

EMERGENCY PHONE
SOLID LIGHT: *CALLING*
BLINKING LIGHT: *RECEIVED*

Features:

- Meets all IBC, ADAAG, and NFPA Code requirements
- Requires analog telephone line (POTS, PBX, or central office line)
- Power Requirements: 24vdc from model 2500-PWR24
- Built-in battery backup recharges from 24vdc power (allows for a minimum of 4 hours of talk time upon power loss)
- Built-in 10 phone consolidator feature allows you to install 10 Call Boxes and 1 Base Station on a single telephone line
- Programmable with up to 5 emergency numbers
- On-site programming
- Remote or on-site diagnostic test
- Recordable location message (18 seconds)
- Phone checks every 24 hours for an active phone line, if one is not detected, phone will provide a relay trip
- Compatible with SmartRescue Base Station or Command Center for in-building rescue coordination
- Automatic dialer (31 digit programmable memory)
- Automatic answer feature with audible ring
- Touch Tone operation only (Touch Tone is an AT&T registered trademark)
- 3 year warranty

Access emergency services utilizing a standard, fully code compliant solution. Our 4G Cellular Gateway works with any RATH® SmartPhone VI or Janus Elevator Phone. Order as a complete system or retrofit in the field with a simple, hassle-free installation. The cellular software checks the network connection throughout the day and if the network connection is compromised, the software will alert the phone which will provide a trouble signal to the Communication Failure Annunciator until the network has been restored. **2-year prepaid SIM card and plan included.**

Part #: 2100-LTEVER4-2

Code Compliance:
- Meets all ASME A17.1 code requirements for phone line monitoring
- FCC registered
- UL 62368-1 listed

Power Requirements:
- 120vac, 10VA

Wiring Requirements:
- Standard FXS port to allow a 2-wire connection from elevator phone, machine room phone, or lobby master
- Includes RS232 serial connector and CANBUS connector

Phone Capabilities:
- Compatible with all RATH® SmartPhone VI Elevator Phones
- If used with a Janus phone that is not equipped with external power, part # POWPK-12VC must be ordered
- Use as a pass through for controller logic on a wireless platform

Additional Features:
- Includes antenna
- **Internal Battery:** 12v, 800mAh (meets ASME requirements for 4 hours talk time)
- Voltage Rating:
  Idle: 110-120v, 50/60Hz, current draw 40mA
  Active: Current draw 80mA

Specifications:	
Dimensions:	4.3" H x 8.3" W x 2.6" D
Mounting:	Surface Mount
Warranty:	2 Years

N56 W24720 N. Corporate Circle • Sussex, WI 53089 • 800-451-1460
www.rathcommunications.com • www.januselevator.com

07/22

Call Box Instruction Sign 7049

PUSH FOR HELP

LOCATION   FLOOR

_____   _____

Persons able to use the exit stairway do so as soon as possible, unless they are assisting others.

After activating the two-way emergency communication system, wait here for assistance.
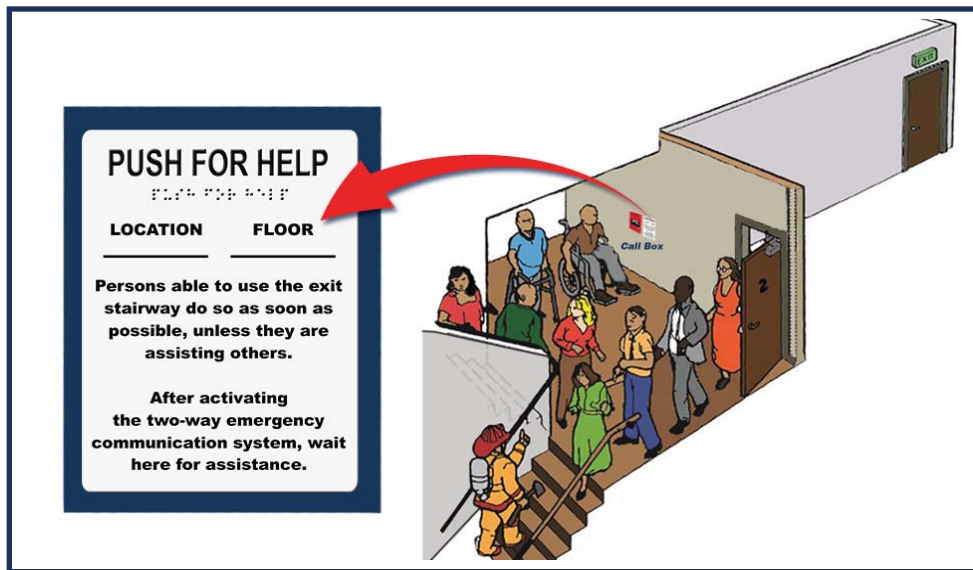
8"

6"

Features:

- IBC, NFPA, and ADAAG Code compliant
- Raised letter and braille
- Peel and stick mounting for easy installation
- Sign should be mounted between 48"- 60" from floor to tactile characters
- Required for each Call Box per IBC Section 1007.11
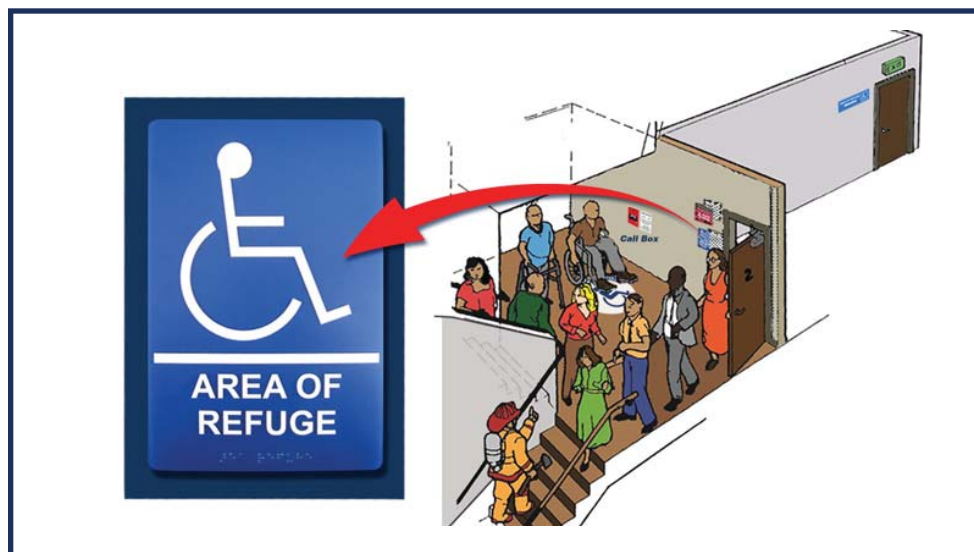
Made in the USA
3 Year Warranty

9"

6"

9"

6"

Features:

- Black & White (7043)
- Blue & White (7044)
- IBC, NFPA, and ADAAG Code compliant
- Raised letter and braille
- Peel and stick mounting for easy installation
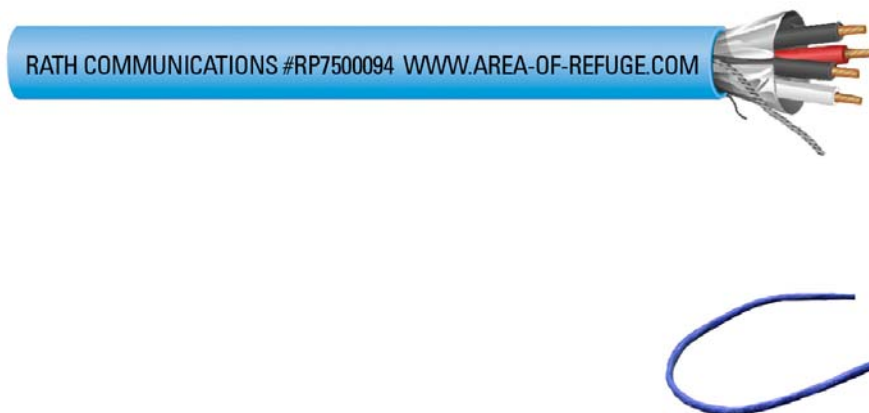- Sign should be mounted at 60" above the floor to center line of the sign

Specifications:

- 7-3/4" H x 7-3/4" W
- Glow in the dark photo luminescent material stores natural and artificial light to emit glow for up to 8 hours
- Peel and stick mounting for easy installation
- Sign should be mounted at 60" above the finish floor to the center line of the sign
- IBC, NFPA, and ADAAG code compliant

Part Number: RP7500094
1000' Roll

RATH COMMUNICATIONS #RP7500094 WWW.AREA-OF-REFUGE.COM

RATH
GREATLY REDUCES LABOR COSTS
INCREASES EFFICIENCY & SAFETY
PERFECT PULL TEAR AWAY
Do Not Install Cable Below 0°C (32°F) Min.
SMARTWIRE **GLIDE** TECHNOLOGY
LIFT FROM HANDLES ONLY

Description: 22 AWG 2 Pair Bare Copper, Overall Shielded Plenum, UL Listed E143243 C(UL)US CMP OR FPLP (UL)

Conductor: 22 (7/30 Bare Copper)

Insulation: Low-Smoke PVC .008"

Color Code: Black/White, Black/Red

Shield: Aluminum Mylar

Drain Wire: 24 AWG 7 Strand Tinned Copper

Jacket: Low-Smoke PVC .018"

Jacket Color: Blue

Marking: RATH COMMUNICATIONS #RP7500094 WWW.AREA-OF-REFUGE.COM A B C D E 0 1 2 3 4 5 6 7

Overall Diameter: .194" Nom.

Cable Weight: 19 Lbs/Mft.

Capacitance: 51 pF/Ft. Nom.

Impedance: 37 Ohms/Mft.

Temperature Rating: 0 C to 75 C/ 300 Volt

Flame Rating: Approved for plenum use without conduit per NFPA 262 Flame Test

Agency Approvals: NEC Article 800, 760; UL Listed E143243 C(UL)US CMP OR FPLP (UL), RoHS Compliant, Made in the USA

Part Number: RP7500094P
1000' Roll

RATH COMMUNICATIONS POWER CABLE #RP750094P WWW.AREA-OF-REFUGE.COM POWER CABLE

GREATLY REDUCES LABOR COSTS
INCREASES EFFICIENCY & SAFETY
PERFECT PULL TEAR AWAY
Do Not Install Cable Below 0°C (32°F) Min.
SMARTWIRE GLIDE TECHNOLOGY
LIFT FROM HANDLES ONLY

Description: 18 AWG 2 Conductor Bare Copper Shielded Plenum, UL Listed E143243 C(UL)US CMP OR FPLP (UL)

Conductor: 18 (7/26 Bare Copper)

Insulation: Low-Smoke PVC .008"

Color Code: Red/Black

Shield: Aluminum Mylar

Jacket: Low-Smoke PVC .018"

Jacket Color: Red

Overall Diameter: .158" Nom.

Cable Weight: 21 Lbs/Mft.

Capacitance: 68 pF/Ft. Nom.

Impedance: 28 Ohms/Mft.

Temperature Rating: 0 C to 75 C/ 300 Volt

Flame Rating: Approved for plenum use without conduit per NFPA 262 Flame Test
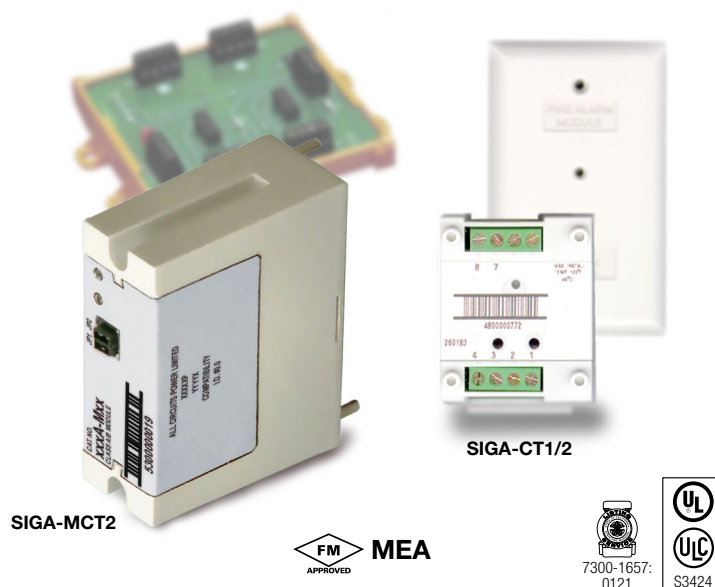
Agency Approvals: NEC Article 800, 760; UL Listed E143243 C(UL)US CMP OR FPLP (UL), RoHS Compliant, Made in the USA

EDWARDS

LIFE SAFETY & INCIDENT MANAGEMENT

Input Modules
SIGA-CT1, SIGA-CT1HT, SIGA-CT2, SIGA-MCT2

SIGA-CT1/2

SIGA-MCT2

FM APPROVED   MEA

7300-1657: 0121   UL   ULC S3424

Overview

The SIGA-CT1 Single Input Module, SIGA-CT1HT High Temperature Single Input Module and SIGA-CT2/SIGA-MCT2 Dual Input Modules are intelligent analog addressable devices used to connect one or two Class B normally-open Alarm, Supervisory, or Monitor type dry contact Initiating Device Circuits (IDC).

The actual function of these modules is determined by the "personality code" selected by the installer. This code is downloaded to the module from the Signature loop controller during system configuration.

The input modules gather analog information from the initiating devices connected to them and convert it into digital signals. The module's on-board microprocessor analyzes the signal and decides whether or not to input an alarm.

The SIGA-CT1, SIGA-CT1HT and SIGA-CT2 mount to standard North American 1-gang electrical boxes, making them ideal for locations where only one module is required. Separate I/O and data loop connections are made to each module.

The SIGA-CT1HT module operates at an expanded temperature range of 32 °F to 158 °F (0 °C to 70 °C) for those applications requiring more extreme environmental temperature variation.

The SIGA-MCT2 is part of the UIO family of plug-in Signature Series modules. It functions identically to the SIGA-CT2, but takes advantage of the modular flexibility and easy installation that characterizes all UIO modules. Two- and six-module UIO motherboards are available. All wiring connections are made to terminal blocks on the motherboard. UIO assemblies may be mounted in EDWARDS enclosures.

Standard Features

- **Multiple applications**
  Including Alarm, Alarm with delayed latching (retard) for waterflow applications, Supervisory, and Monitor. The installer selects one of four "personality codes" to be downloaded to the module through the loop controller.

- **SIGA-CT1HT rated for high temperature environments**
  Suitable for attic installation and monitoring high temperature heat detectors.

- **Plug-in (UIO) or standard 1-gang mount**
  UIO versions allow quick installation where multiple modules are required. The 1-gang mount version is ideal for remote locations that require a single module.

- **Automatic device mapping**
  Signature modules transmit information to the loop controller regarding their circuit locations with respect to other Signature devices on the wire loop.

- **Electronic addressing**
  Programmable addresses are downloaded from the loop controller, a PC, or the SIGA-PRO Signature Program/Service Tool. There are no switches or dials to set.

- **Ground fault detection by address**
  Detects ground faults right down to the device level.

Signature Series Overview

The Signature Series intelligent analog-addressable system from EDWARDS Security is an entire family of multi-sensor detectors and mounting bases, multiple-function input and output modules, network and non-network control panels, and user-friendly maintenance and service tools. Analog information from equipment connected to Signature devices is gathered and converted into digital signals. An onboard microprocessor in each Signature device measures and analyzes the signal and decides whether or not to input an alarm. The microprocessor in each Signature device provides four additional benefits – Self-diagnostics and History Log, Automatic Device Mapping, and Fast, Stable Communication.

Self-diagnostics and History Log – Each Signature Series device constantly runs self-checks to provide important maintenance information. The results of the self-check are automatically updated and permanently stored in its non-volatile memory. This information is accessible for review any time at the control panel, PC, or using the SIGA-PRO Signature Program/ Service Tool.

Automatic Device Mapping –The Signature Data Controller (SDC) learns where each device's serial number address is installed relative to other devices on the circuit. The SDC keeps a map of all Signature Series devices connected to it. The Signature Series Data Entry Program also uses the mapping feature. With interactive menus and graphic support, the wired circuits between each device can be examined. Layout or "as-built" drawing information showing branch wiring (T-taps), device types and their address are stored on disk for printing hard copy.

Installation

SIGA-CT1, SIGA-CT1HT and SIGA-CT2: modules mount to North American 2½ inch(64 mm) deep 1-gang boxes and 1½ inch (38 mm) deep 4 inch square boxes with 1-gang covers and SIGA-MP mounting plates. The terminals are suited for #12 to #18 AWG (2.5 mm^2 to 0.75 mm^2) wire size.
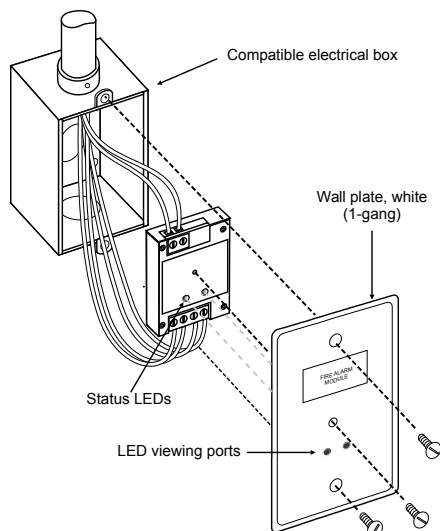
SIGA-MCT2: mount the UIO motherboard inside a suitable EDWARDS enclosure with screws and washers provided. Plug the SIGA-MCT2 into any available position on the motherboard and secure the module to the motherboard with the captive screws. Wiring connections are made to the terminals on the motherboard (see wiring diagram). UIO motherboard terminals are suited for #12 to #18 AWG (2.5 mm^2 to 0.75 mm^2) wire size.
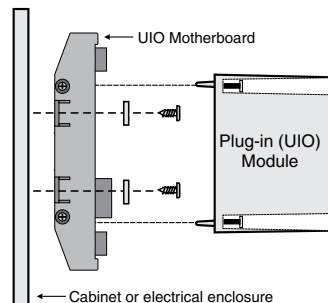
Electronic Addressing - The loop controller electronically addresses each module, saving valuable time during system commissioning. Setting complicated switches or dials is not required. Each module has its own unique serial number stored in its on-board memory. The loop controller identifies each device on the loop and assigns a "soft" address to each serial number. If desired, the modules can be addressed using the SIGA-PRO Signature Program/Service Tool.

EDWARDS recommends that this module be installed according to latest recognized edition of national and local fire alarm codes.

Application

The duty performed by the SIGA-CT1 and SIGA-CT2/MCT2 is determined by their sub-type code or "Personality Code". The code is selected by the installer depending upon the desired application and is downloaded from the loop controller.

One personality code can be assigned to the SIGA-CT1. Two personality codes can be assigned to the SIGA-CT2/MCT2. Codes 1, 2, 3 and 4 can be mixed on SIGA-CT2/MCT2 modules only. For example, personality code 1 can be assigned to the first address (circuit A) and code 4 can be assigned to the second address (circuit B).

NORMALLY-OPEN ALARM - LATCHING (Personality Code 1) - Assign to one or both circuits. Configures either circuit A or B or both for Class B normally open dry contact initiating devices such as Pull Stations, Heat Detectors, etc. An ALARM signal is sent to the loop controller when the input contact is closed. The alarm condition is latched at the module.

NORMALLY-OPEN ALARM - DELAYED LATCHING (Personality Code 2) - Assign to one or both circuits. Configures either circuit A or B or both for Class B normally-open dry contact initiating devices such as Waterflow Alarm Switches. An ALARM signal is sent to the loop controller when the input contact is closed for approximately 16 seconds. The alarm condition is latched at the module.

NORMALLY-OPEN ACTIVE - NON-LATCHING (Personality Code 3) - Assign to one or both circuits. Configures either circuit A or B or both for Class B normally-open dry contact monitoring input such as from Fans, Dampers, Doors, etc. An ACTIVE signal is sent to the loop controller when the input contact is closed. The active condition is not latched at the module.

NORMALLY-OPEN ACTIVE - LATCHING (Personality Code 4) - Assign to one or both circuits. Configures either circuit A or B or both for Class B normally open dry contact monitoring input such as from Supervisory and Tamper Switches. An ACTIVE signal is sent to the loop controller when the input contact is closed. The active condition is latched at the module.

Typical Wiring

Modules will accept #18 AWG (0.75mm²), #16 (1.0mm²), and #14AWG (1.50mm²), and #12 AWG (2.50mm²) wire sizes.

 Note: Sizes #16 AWG (1.0mm²) and #18 AWG (0.75mm²) are preferred for ease of installation. See Signature Loop Controller catalog sheet for detailed wiring requirement specifications.

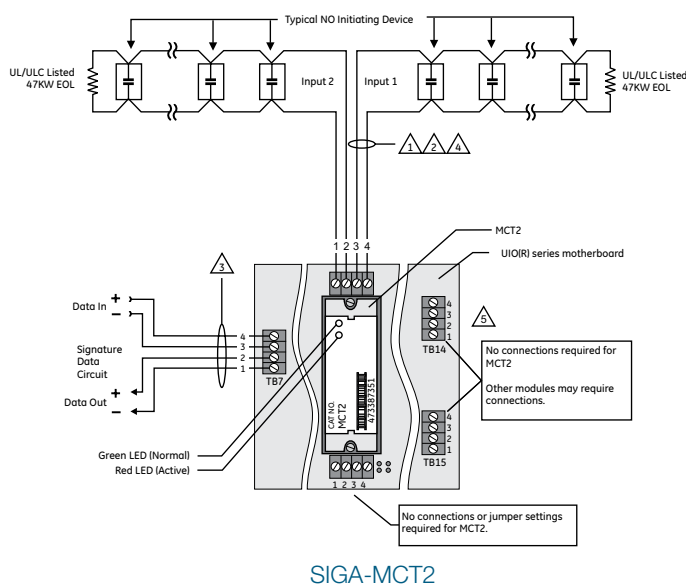| Initiating (Slave) Device Circuit Wire Specifications		
Maximum Allowable Wire Resistance	50 ohms (25 ohms per wire) per Circuit	
Maximum Allowable Wire Capacitance	0.1µF per Circuit	
For Design Reference:	Wire Size	Maximum Distance to EOLR
	#18 AWG (0.75 mm²)	4,000 ft (1,219 m)
	#16 AWG (1.00 mm²)	
	#14 AWG (1.50 mm²)	
	#12 AWG (1.50 mm²)	

SIGA-CT1, SIGA-CT1HT

SIGA-CT2
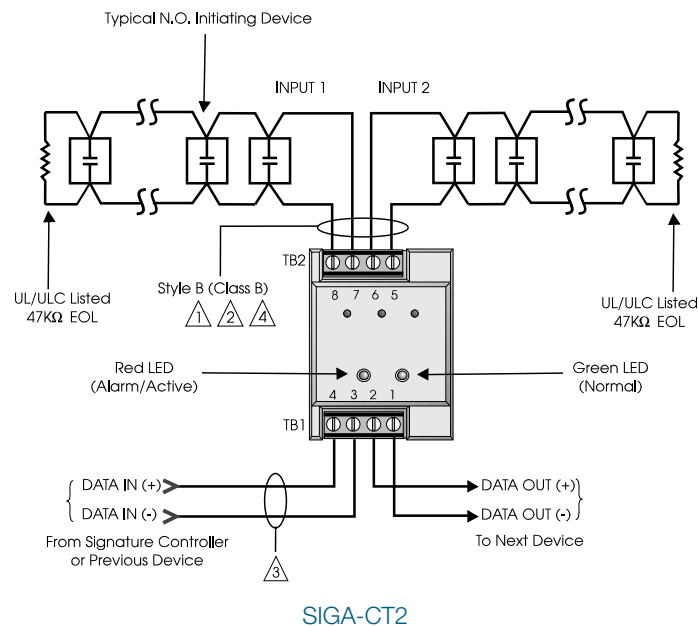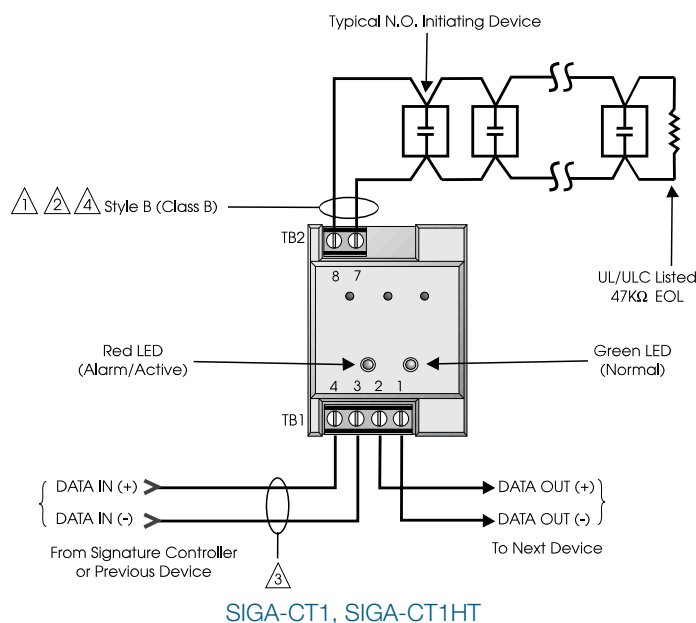
NOTES

⚠1 Maximum 25 Ohm resistance per wire.

⚠2 Maximum #12 AWG (2.5 mm²) wire; Minimum #18 AWG (0.75 mm2).

⚠3 Refer to Signature controller installation sheet for wiring specifications.

⚠4 Maximum 10 Vdc @ 350 µA

⚠5 The SIGA-UIO6R and the SIGA-UIO2R do not come with TB14.

6   All wiring is supervised and power-limited.

7   These modules will not support 2-wire smoke detectors.

Warnings & Cautions

This module will not operate without electrical power. As fires frequently cause power interruption, we suggest you discuss further safeguards with your local fire protection specialist.

Compatibility

These modules are part of EDWARDS's Signature Series intelligent processing and control platform. They are compatible with EST3, EST3X and iO Series control panels.

SIGA-MCT2

DATA SHEET **E85001-0241**
Not to be used for installation purposes. **Issue 1.1**

Specifications

Catalog Number	SIGA-CT1HT	SIGA-CT1	SIGA-CT2	SIGA-MCT2
Description	Single Input Module		Dual Input Module	
Type Code	48 (factory set) Four sub-types (personality codes) are available		49 (factory set) Four sub-types (personality codes) are available	
Address Requirements	Uses One Module Address		Uses Two Module Addresses	
Operating Current	Standby = 250µA; Activated = 400µA		Standby = 396µA; Activated = 680µA	
Operating Voltage	15.2 to 19.95 Vdc (19 Vdc nominal)			
Construction	High Impact Engineering Polymer			
Mounting	North American 2½ inch (64 mm) deep one-gang boxes and 1½ inch (38 mm) deep 4 inch square boxes with one-gang covers and SIGA-MP mounting plates			UIO2R/6R/6 Motherboard
Operating Environment	32°F to 158°F (0°C to 70°C)	32°F to 120°F (0°C to 49°C)		
Storage Environment	-4°F to 140°F (-20°C to 60°C); Humidity: 0 to 93% RH			
LED Operation	On-board Green LED - Flashes when polled; On-board Red LED - Flashes when in alarm/active.			
Compatibility	Use with Signature Loop Controller			
Agency Listings	UL, ULC, MEA, CSFM			

Ordering Information

Catalog Number	Description	Ship Wt. lbs (kg)
SIGA-CT1	Single Input Module — UL/ULC Listed	0.4 (0.15)
SIGA-CT1HT	Single Input Module High Temperature Operation UL/ULC Listed	0.4 (0.15)
SIGA-CT2	Dual Input Module — UL/ULC Listed	0.4 (0.15)
SIGA-MCT2	Dual Input Plug-in (UIO) Module — UL, ULC Listed	0.1 (0.05)

Related Equipment		
27193-11	Surface Mount Box - Red, 1-gang	1.0 (0.6)
27193-16	Surface Mount Box - White, 1-gang	1.0 (0.6)
SIGA-UIO2R	Universal Input-Output Module Board w/Riser Inputs — Two Module Positions	0.32 (0.15)
SIGA-UIO6R	Universal Input-Output Module Board w/Riser Inputs — Six Module Positions	0.62 (0.28)
SIGA-UIO6	Universal Input-Output Module Board — Six Module Positions	0.56 (0.25)
MFC-A	Multifunction Fire Cabinet — Red, supports Signature Module Mounting Plates	7.0 (3.1)
SIGA-MB4	Transponder Mounting Bracket (allows for mounting two 1-gang modules in a 2-gang box)	0.4 (0.15)
SIGA-MP1	Signature Module Mounting Plate, 1 footprint	1.5 (0.70)
SIGA-MP2	Signature Module Mounting Plate, 1/2 footprint	0.5 (0.23)
SIGA-MP2L	Signature Module Mounting Plate, 1/2 extended footprint	1.02 (0.46)

DATA SHEET **E85001-0241**
Not to be used for installation purposes. **Issue 1.1**

03-27-20