

Field panels are the core of any access control system. When used with Topaz Intelligent Access Control software, the 32-bit-processor-based **ACURT2** and **ACURT4** access control and alarm monitoring panels set the industry standard for performance, reliability, flexibility, and cost effectiveness. They are designed to operate with the server using a RS-485, RS-232, or LAN/WAN connection.

Based on a true 32-bit platform, each ACURT2 and ACURT4 panel contains 16MB of RAM with battery backup, allowing high-speed transactions and support for up to 10,000 cardholders.

The ACURT2 includes direct connections for two readers including magnetic stripe, Wiegand, proximity, bar code, and biometric. The ACURT4 includes up to four connections. Also onboard are all of the inputs and outputs necessary to support the operation of the access-controlled doors, including door position switch, request-to-exit device, and electric door release hardware. In addition, auxiliary inputs and outputs are provided for most application needs.

The panels have onboard high-speed LAN/WAN connections. They also connect through RS-485, RS-232, and dialup for additional flexibility.

Up to 32 ACURT2s or ACURT4s may be connected to a single Topaz server. All access decisions and alarm monitoring activity are performed locally at the ACURT2 and ACURT4 panels based on parameters that are downloaded from the server—thus minimizing network traffic and minimizing the time from presenting a card to completion of the access transaction.

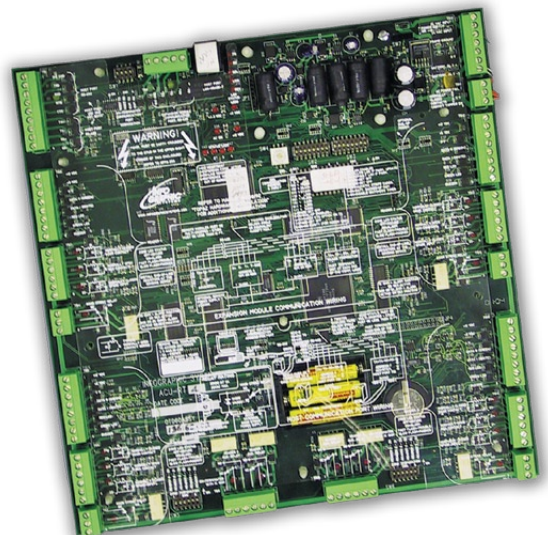
Whether or not the server is online, the panel will continue to monitor alarms and process access requests based on which access points (doors) each cardholder is allowed to pass through and when. The ACURT2 and ACURT4 can also operate in a standalone mode only, connecting to the server when necessary through a dialup phone line.

## Features

- Integrated GE Security DVMRe support adds video recording to events reported to the Topaz system
- Onboard high-speed LAN/WAN
- Flashmemory
- 16MB RAM
- Battery backup
- Onboard programmable relays and supervised alarm inputs
- I/O capability can be expanded
- Connections can also be made through RS-485, RS-232, or dialup
- Instant Access
- Data Guard
- Local antipassback

# ACURT2 & ACURT4

Networked intelligent controllers



### ***Supports many readers and card formats***

The ACURT panels directly support either two (ACURT2) or four (ACURT4) readers. ACURT field panels support 16 variable card formats, Magstripe or Wiegand reader technologies, and multiple site/facility codes.

Readers may consist of magnetic stripe, Wiegand, proximity, barcode, biometric technologies, keypad, or combined reader/keypad. Keypads may be used for controlled entry, masking and unmasking of alarm devices, and activation of a duress alarm.

### ***High processor speed and 16MB memory***

True 32-bit Motorola processor assures high-speed downloads, fast access, and real-time alarm reporting, as well as 16MB memory support for up to 10,000 cardholder records in each panel. Records may include access privileges, time schedules, holiday schedules, security areas, access groups, and more.

The memory is dynamically allocated so that any memory not used for storing cardholder records is available to store events and transactions. Even with full use of the cardholder record memory, a minimum of 1,000 transactions may be stored for subsequent upload to the server where they can be archived for future retrieval and report generation.

### ***Supervised inputs/relay outputs***

Onboard programmable relays are provided on each panel, and can include supervised inputs for door contacts, motion detectors, glassbreak sensors, and other alarm devices, as well as request-to-exit devices and electric door hardware. The ACURT panels also provide programmable auxiliary relays (outputs) for interface with other building systems.

I/O capability can be expanded through the use of RIM and RRM modules connected remotely through an RS-485 interface. This reduces wiring and installation cost by putting your alarm monitor points and control relays where they are needed.

The panels also support elevator control, antipassback, and programmable input to output linking. This gives them a level of flexibility unmatched by any other access control unit.

### ***LAN connection or dialup option***

Onboard 10Base-T LAN connection is standard and also supports a RS-485 connection for multiple dropping of additional panels using a single IP address. Optional dialup works for remote database download, historical activity, and alarm reporting.

If an ACURT2 or ACURT4 is connected to the server through a LAN/WAN or dialup connection, additional ACURT units may be connected via multidrop RS-485. This reduces cost and number of IP addresses or dialup connections required for the facility.

### ***Instant Access***

Instant Access ensures that there is no waiting for access during the download of information to the field panels, because that information is stored in the local memory.

### ***Data Guard***

Data Guard is a unique download utility that eliminates the potential for database corruption during downloads to field panels.

### ***Local antipassback***

Local antipassback feature is a method of preventing an ID device from gaining access to an area more than once, without it first being used to exit from that area.

### ***Flash memory***

Operating firmware is stored in flash memory for easy updates from the PC—no need to go to each panel and replace chips. Updates can occur over the LAN/WAN, RS-485, RS-232, and dialup connections.

### ***Construction and design***

Each unit is mounted in a sturdy sheet metal enclosure with a removable hinged door, a keyed lock, and a cabinet tamper switch for ease of installation and service as well as security. Connection diagram overlays allow for easier wiring and installation as well as viewing of system diagnostic LEDs

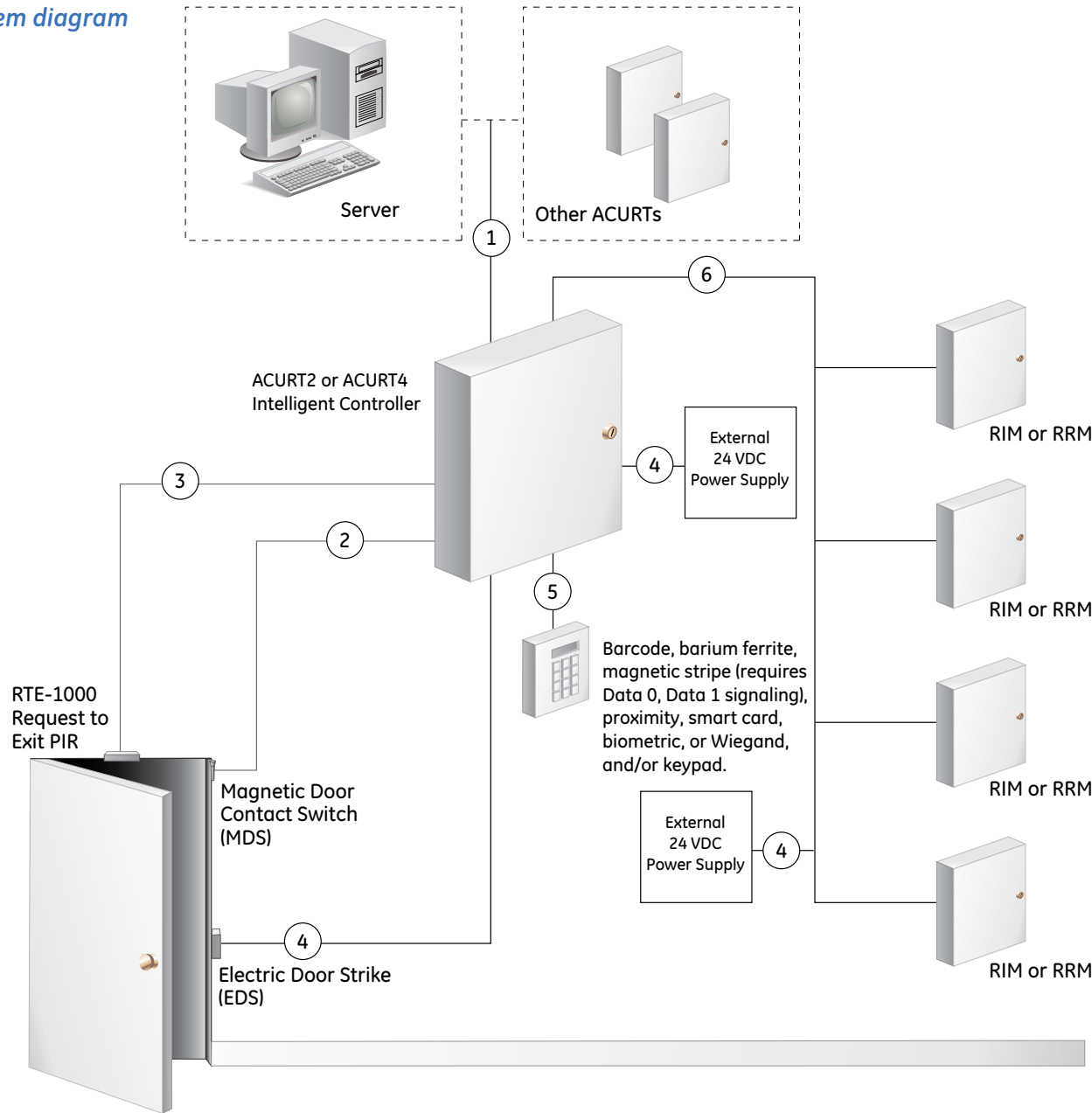
### ***Battery backup and power supplies***

An onboard battery charger with batteries maintains the ACURT board and direct-connected readers in the event of a power failure.

These backup batteries supply power to the unit, readers, and the built-in communication devices such as the LAN/WAN, serial communication ports, and optional dialup modem.

A plugin transformer is also included with each unit. If desired, an external power supply (UL-UPS-24V) can be added for door strikes, and for external ACU expansion modules, readers, and devices.

System diagram



Cable Details (for above diagram)

No.	Description	Belden cable number (or equal)	Maximum distance
1	Communication (RS-485)	#9842 or Alpha #6222C, 24 AWG, 2-pair, individual shields, braid overall shield	4,000 ft. (1,200 m) end-to-end
or	10Base-T LAN	Category 5 (4 PR)	or 328 ft. (100 m)
2	Door contact input	#9407-22 AWG, 2-conductor (unshielded)	1,000 ft. (305 m)
3	Exit request sensor input	#9407-22 AWG, 2-conductor (unshielded) 2 additional conductors required if sensor is powered	1,000 ft. (305 m)
4	Door lock control from	#9409-18 AWG, 2-conductor (unshielded) controller or external power	1,000 ft. (305 m)
5	Standard reader	#9514-22 AWG, 4 twisted pairs with overall shield and drain wire	500 ft. (152 m)
6	Communications (RS-485) to remote modules	#9842 or Alpha #6222C, 24 AWG, 2-pair, individual shields, braid overall shield	4,000 ft. (1,200 m) end-to-end



# Specifications

Americas  
503-885-5700  
888-GE-SECURITY  
(437-3287)  
info@gesecurity.com  
www.gesecurity.com

Asia  
tel 852-2907-8108  
fax 852-2142-5063

Australia  
tel 61-3-9259-4700  
fax 61-3-9259-4799

Europe  
tel 32-2-725-11-20  
fax 32-2-721-86-13

Latin America  
tel 305-593-4301  
fax 305-267-4300

## Features

- Reader support: 2 for ACURT2, 4 for ACURT4
- Memory: 16MB RAM with battery backup; flash ROM
- Processor: 32-bit Motorola ColdFire
- Communication: Onboard COM ports (RS-232, RS-485, LAN/WAN)
- Event buffer: 250,000 events
- Elevator control: Yes

## Electrical

- Input power: 24 VAC @40 VA
- Battery backup: 24 VAC (batteries included)
- Optional 24 VDC 2.5 A external power supply

## Environmental

- Operating temperature: 32 to 150°F (0 to 65°C)
- Relative humidity: 0 to 95%

## Physical

- Dimensions (HxWxD): 16.25 x 16.375 x 4.125 in. (413 x 416 x 105 mm)
- Weight (with batteries): 19 lb. (8.6 kg)
- Weight (without batteries): 16 lb. (7.3 kg)

# Ordering information

## Panels

*Each panel includes enclosure, transformer, and backup batteries*

ACURT2	Two-reader control panel with 16MB RAM, LAN port
ACURT4	Four-reader control panel with 16MB RAM, LAN port

## Expansion Kits

*Each kit includes ACURT panel, enclosure, readers, plugin transformer, and backup batteries*

ACURT2-EX-PP	Two-reader control panel with two TPZ-RPP2-60 readers
ACURT2-EX-MU	Two-reader control panel with two TPZ-RPP2-50 (mullion) readers
ACURT4-EX-PP	Four-reader control panel with four TPZ-RPP2-60 readers
ACURT4-EX-MU	Four-reader control panel with four TPZ-RPP2-50 (mullion) readers

## Hardware

TPZ-RIM-1	Remote 16-Input Module with enclosure and lock
TPZ-RRM-1	Remote 16-Relay Output Module with enclosure and lock
DIAL UP KIT	Dial-up kit for ACURT

## System Kits

*Each kit includes cards, readers, ACURT panel, RS-232 to RS-485 converter, plugin transformer, Topaz software, and backup batteries*

TPZ-SYS-A	Two-reader system (two TPZ-RPP2-60 readers)
TPZ-SYS-B	Two-reader system (two TPZ-RPP2-50 mullion readers)
TPZ-SYS-C	Four-reader system (four TPZ-RPP2-60 readers)
TPZ-SYS-D	Four-reader system (four TPZ-RPP2-50 mullion readers)

## Power supplies/converters

UL-UPS-24V	UL 24 V, 2.5 A battery backup power supply
TPZ-NCIC-5C	RS-232 to RS-485 converter

## Reader

TPZ-RPP2-50	MiniProx reader
TPZ-RPP2-60	ProxPoint reader

*Additional Topaz parts are listed in the price guide.*