

# Transition Series

T-200 Model Reader



## Description

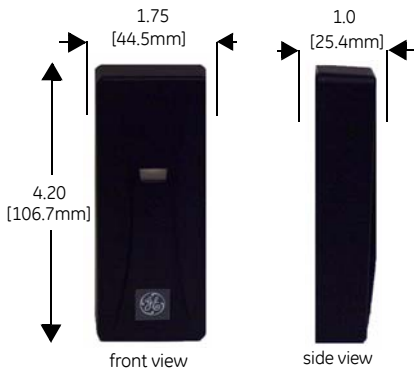
The T-200 GE Transition™ Series card reader is a card serial number reader compatible with the following 13.56MHz technologies:

- Vicinity (ISO 15693)
- HID iCLASS® Serial Number
- Infineon my-d® Serial Number
- Philips I-Code Serial Number
- Proximity (ISO14443)
- DESFire® Serial Number
- MIFARE® Serial Number

## Mounting the reader

- Find a suitable mounting position on the door frame or wall.
- Drill two vertical mounting holes 2.25" (57.2 mm) apart on the mounting surface of the door frame or wall.

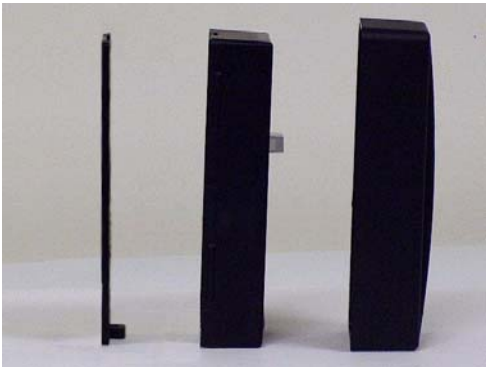
Figure 1. Dimensions



- Drill one 1.00" (25.4 mm) diameter hole in wall for the pigtail wire connection.
- Follow the Cable Connection Chart to connect the reader to the field panel and external door equipment.
- Mount the base plate to the wall using the supplied screws.

- Hook the top of the reader case to the top of the base plate and press into place.

Figure 2. Aligning top cover, reader case, and base plate.



- Install the supplied screw in the base of the reader.
- Snap the cover on the top of the case.

## Connecting the cable

- The readers are supplied with a 8-conductor cable pigtail with drain wire. Connect the pigtail to the host panel. Use the Cable Connection Chart (below) to correctly match the color of each wire.

Color	Signal
Black	Ground
Blue	Beeper
Brown	Red LED Control
Green	Data 0
Orange	Green LED Control
Red	6 to 16 VDC
White	Data 1
Drain	Shield Ground

- Use a DC power source between 6-16 VDC.
- Connect reader's drain wire to the cable shield. Do not connect shield wires at the field panel.

## Testing the reader

1. Power up the reader. Verify the power-on self test LED/beep sequence:
  - green LED flashes; two short beeps
  - yellow LED flashes; three short beeps
  - red LED flashes
  - yellow LED flashes
2. Verify the yellow LED is on continuously indicating the reader is ready.
3. Present a badge that has been properly enrolled in the system. Verify the green LED lights and a short beep is heard.

## Removing the cover

To remove the cover, squeeze the sides of the top cover and pull to release the cover.

## Specifications

Colors	Black, Charcoal, Gray
Power supply	Linear DC recommended
Voltage range	6 - 16 VDC
Temperature range	-31 F to 149 F -25 C to 65 C
Cable distance to panel	200 ft. max (22 gauge) 300 ft. max. (20 gauge) 500 ft. max. (18 gauge)
Read Range (Distances may vary depending on environment.)	- Mifare: up to 1.0" (2.54 cm) Ultralight cards not supported - Vicinity: up to 3.5" (8.89 cm)
Wiegand output	- Mifare 5502 (55-bit) - Vicinity 5502 (55-bit)
Regulatory approvals and standards	UL 294, CE, and FCC (part 15)
ISO Standards	Mifare ISO 14443A Vicinity ISO 15693

The voltage specification for this reader is 6-16 VDC, although 12 VDC or greater is recommended for better performance and cable run distances.

The recommended cable gauge is 18-gauge to 22-gauge. Check with the cable supplier to determine the best choice for the application and installation distance.

## FCC compliance

The FCC requires the following statement: This reader uses radio frequency energy and has been tested, and complies with the limits of FCC testing. Changes, modification, or disregard of proper installation and instructions not expressly approved by GE Security, and is strictly prohibited by the FCC and could void the user's authority to operate the equipment.

## Ordering information

Product	Description
T-200W (Black) *	430223003
T-200W (Charcoal) *	430223002
T-200W (Gray) *	430223001

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