

# TruPortal™ Series

## T-100 Model Reader



### Description

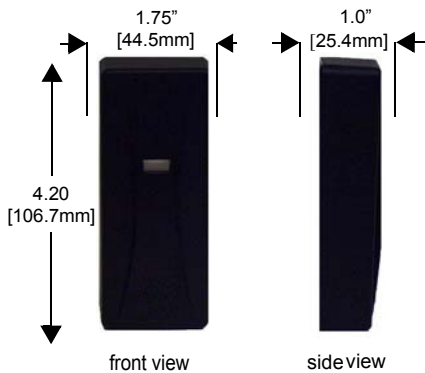
The T-100 card reader is a card serial number reader compatible with the following 125 kHz Proximity technologies:

- CASI ProxLite®
- HID® Proximity

### Mounting the reader

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

Figure 1. Dimensions



3. Drill one 1.00" (25.4 mm) diameter hole in wall for the pigtail wire connection.
4. Follow the Cable Connection Chart to connect the reader to the field panel.
5. Mount the base plate to the wall using the supplied screws.
6. Hook the top of the reader case to the top of the base plate and press into place.

### Technical support

For assistance with this product, refer to this document and any other documentation provided. If you still have questions, you may contact technical support during normal business hours (Monday through Friday, excluding holidays, between 8 a.m. and 8 p.m. Eastern Standard Time.) See <http://www.interlogix.com/customer-support>.

U.S.  
1-855-286-8889, option 2  
Canada  
1-855-286-8889, option 2  
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1-561-998-6114

Web site: <http://www.interlogix.com>

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Figure 2. Base plate, reader case, and top cover



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

### Connecting the cable

1. The readers are supplied with an 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	5 to 16 VDC
White	Data 1
Drain	Shield Ground

2. Use a DC power source between 5-16 VDC.
3. Connect the reader's drain wire to the cable shield. 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 lights 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	
Power usage	70 mA @ 12 VDC	
Voltage range	5 - 16 VDC	
Temperature range <sup>a</sup>	-31°F to 149°F (-35°C to 65°C)	
Cable distance to panel <sup>b</sup>	Cable Distance Max. @ 12 VDC	AWG
	200 ft. (60.96 m)	22
	300 ft. (91.44 m)	20
	500 ft. (152.4 m)	18
Read Range <sup>c</sup> (Distances may vary depending on environment.)	Proximity Perfect cards are not supported by the TruPortal Series reader. - CASI ProxLite: up to 3.5" (8.89 cm) - HID Proximity: up to 3.5" (8.89 cm)	
Wiegand output <sup>d</sup>	- Proximity: 4002 (40-bit) 12 digits - HID Proximity/Corporate 1000: Most formats (26 to 174-bit)	
Regulatory approvals and standards	UL 294, CE, and FCC Part 15	
UL evaluation for UL Listed Installations:		

- 25°F to 125°F (32°C to 52°C)
- 500 ft. (152.4 m) max. 22 AWG @ 12 VDC  
200 ft. (60.96 m) max. 22 AWG @ 5 VDC
- Proximity: up to 3.0" (7.62 cm)  
HID Proximity: up to 3.0" (7.62 cm)
- HID Proximity/Corporate 1000: Most formats (up to 64-bit)

The voltage specification for this reader is 5-16 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, has been tested, and complies with the limits of FCC testing. Changes, modifications, or disregard of proper installation and instructions not expressly approved by UTC Fire & Security are strictly prohibited by the FCC and could void the user's authority to operate the equipment.

## Ordering information

Product	Part numbers
T-100 (3 covers, 18" / 45.7 cm pigtail wire)	TP-RDR-100a
T-100 (3 covers, 84" / 214 cm pigtail wire)	TP-RDR-100b

**Note:** Each part number includes all three colors of the cover plates (black, charcoal, gray).

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