

Contactless Smart Card Readers

ET8-RO-W-D / ET8-RO-W-M / ET4-WXM / ET4-WXS



Contactless Smart Card technology is ideally suited for access control, time and attendance, membership/loyalty programs, logical (PC) access, storage of biometric templates, parking, ePurse, and many other applications requiring secure and reliable read/write cards.

e*Tag® readers use 13.56 MHz technology, and work with Secura Key encoded cards and key tags that meet the ISO 15693 international standard. Secura Key uses enhanced DES encryption which makes e*Tag® cards virtually impossible to counterfeit. Cards are available with custom 4-color graphics, or with a glossy white dye-sublimation-ready finish for Photo ID printing. Key tags can also be custom printed. e*Tag® credentials have additional memory that can be used for various applications, with total memory ranging from 512 bits up to 10k bits.

e*Tag® readers have an SIA standard Wiegand output, so they are compatible with most access control panels including the Secura Key SK-ACP. Industry standard wire colors and functions, plus low

current draw and 5VDC operation allow easy upgrade of existing Wiegand or proximity readers. ET8 models include a convenient wiring harness, which allows the reader to be plugged in when the installation is completed; ET4 models have a wire pigtail.

In addition to the Wiegand interface, ET4 models also have an RS485 port, which allows two-way data transfer for read/write applications. The RS485 protocol is point-to-point, and can be used simultaneously with the Wiegand interface if required. The protocol is available to developers on the Secura Key website.

e*Tag® Readers are available in several form factors: the S-shaped mini-mullion, a standard sized mullion, the traditional “wallswitch” housing, and the new Decorator style wallswitch housing (compatible with Leviton Decora® switchplates). Except for the Decorator reader, all e*Tag® readers are weatherproof, epoxy-potted units suitable for outdoors. All models are UL294 listed and FCC/CE approved devices.

Features:

- ISO 15693 Open Standard 13.56 MHz Technology
- Card Data Encrypted Using DES with Diversified Keys
- SIA Standard Wiegand Output – Works with Any Standard Access Control Panel
- Outdoor Models are Epoxy Potted for Superior Weather Resistance
- Mullion and J-Box mounting
- RS-485 with Read/Write Capability on Some Models
- Industry Standard Wire Colors and Functions for Easy Upgrade
- External LED and Buzzer Controls
- Low Voltage and Low Current Draw
- UL294, FCC, and CE Regulatory Approvals

	ET8-RO-W-D (Decorator)	ET8-RO-W-M (Standard Mullion)	ET4-WXM (S-Mini-Mullion)	ET4-WXS (Wallswitch)
Dimensions (H, W, D)	4.50" x 2.75" x 0.7" 11.43 x 6.99 x 1.78 cm	4.38" x 1.74" x 0.9" 11.12 x 4.19 x 2.28 cm	3.50" x 1.6" x 0.6" 8.89 x 4.06 x 1.53 cm	4.50" x 3.20" x 0.84" 11.43 x 8.13 x 2.13 cm
Mounting	US single-gang box	Mullion, wall, post	Mullion, wall, post	US single-gang box, wall, post
Weight	1.90 oz (53.86 gm)	3.42 oz (97.09 gm)	2.88 oz (81.65 gm)	6.67 oz (189.15 gm)
Material	ABS			Polycarbonate
Color	White or Ivory	Black		Beige or Black
Power Requirements	30/65 mA avg/max. @ 5-14VDC		50/90 mA avg./max. @ 5-14VDC	
Bi-Color LED	Red and Green – Ground to Activate			
Buzzer Control	Ground to Activate			
Hold Line	Ground to Activate			
Communications	Wiegand		Wiegand, RS-485 (point-to-point)	
Cable required (Wiegand)	Up to 500 ft. 5-10 conductor (depending on options used) 18-22 AWG Shielded			
Cable required (RS-485)	N/A		Up to 4000 ft., 18-22 AWG 2 tw. pair, shielded	
Environmental	Operating Temperature: -40 to +158 F (-40 to +70C)			
	Relative Humidity: 0-95% Non-condensing	Relative Humidity: 0-100% Non-condensing		
Operating Frequency	13.56 MHz			
Reading Distance	ISO card up to 4" (10.16 cm) Key tag up to 2.5" (6.35 cm)			ISO card up to 6" (15.24 cm) Key tag up to 3.5" (8.89 cm)
ISO Standard	15693			
Data Encryption	DES with diversified keys			
Operating modes	Read-only card data		Read-only card data, UID Wiegand, Read-write (host managed) RS-485	
Compatible Cards	ETCI-W26 / W32 (ISO), ETST-W26 / W32 (key tag), ETAT-W26 / W32 (adhesive label)			
Regulatory Approvals	UL/cUL294, Part 15 Class B FCC, CE Mark, Canada Radio			
Warranty	These Secura Key products are warranted against defects in materials and workmanship for life. Secura Key will replace any Secura Key manufactured product that fails to perform as intended. This warranty does not include freight, taxes, duties, or installation expenses. See price list for complete terms and conditions.			

ORDERING

READERS:

ET8-RO-W-D-I	"Decorator" Wall switch, read-only, Wiegand output, ivory housing
ET8-RO-W-D-W	"Decorator" Wall switch, read-only, Wiegand output, white housing
ET8-RO-W-M	Standard Mullion reader, read-only, Wiegand output, black housing
ET4-WXS	Standard Wall switch reader/writer, Wiegand & RS-485 output, beige housing
ET4-WXS-B	Standard Wall switch reader/writer, Wiegand & RS-485 output, black housing
ET4-WXM	S-shaped Mini Mullion, reader/writer, Wiegand & RS-485 output, black housing

ACCESSORIES:

RK-BB	Back box / Spacer for ET4-WXS, beige
RK-GM	Glass Mount Kit for ET4-WXS

CARDS/TAGS:

ETCI-W26 / W32	ISO Cards, Encrypted, 26 or 32 bit Wiegand data
ETCI-W26 / W32-MS	ISO Cards, Encrypted, 26 or 32 bit Wiegand data (with unencoded magstripe)
ETST-W26 / W32	Compact Key tag, Encrypted, 26 or 32 bit Wiegand data
ETAT-W26 / W32	Adhesive Tag, Encrypted, 26 or 32 bit Wiegand data
ETCI-W26 / W32-25	Pack of 25 e*Tag® cards, 26 or 32 bit Wiegand data
ETST-W26 / W32-25	Pack of 25 e*Tag® key tags, 26 or 32 bit Wiegand data
	Custom Graphics are available for cards and key tags