## TECHNICAL SPECIFICATIONS

Housing:			
Dimensions (mm)	Controller only:	215(W) x 135(H) x 27(D)	
	Metal cabinet:	426(W) x 300(H) x 83(D)	
Rating	UL94 V-0		
Electrical:			
Power Requirements	PoE/PoE+	IEEE802.3af (PoE); IEEE 802.3at (PoE+)	
	PoE/PoE+	Power consumption (EntroStar only) 3.5W	
	DC:	14V (+10%/-25%) 50W (max)	
	Note: DC input incorporates reverse polarity protection.		
Power Available for External Equipment	PoE:	7.2W (min) 9.3W (max) total	
	PoE+:	17.7W (min) 24.9W (max) total	
	DC:	45W (max) total	
	Note: Each Output A/Output B pair is limited to 800mA (PoE/PoE+) and 1.5A (DC). Each reader port is limited to 500mA @ 25°C de-rated to 300mA @ 70°C		
Battery	Туре:	Lead-acid	
	Voltage:	I2V	
	Capacity:	7Ah (recommended)	
	Note: Battery charge times will be extended when using a larger capacity battery.  Battery connection incorporates reverse polarity protection		
Outputs	Contact Rating:	2A 30V DC	
Environmental:			
Temperature	Storage/Operating: -40°C to +70°C		
Humidity	Up to 93% humidity (non-condensing at +40°C)		

# PRODUCT CODES

I. EN-DC-000IP	EntroStar Controller	
2. EN-DC-0001P-DUO	EntroStar Controller, 2 Reader	
3. EN-DC-0002P	EntroStar Controller, Metal Cabinet	
4. EN-DC-0002P-DUO	EntroStar Controller, 2 Reader, Metal Cabinet	
5. EN-DC-0003P	EntroStar Controller, Metal Cabinet, PSU	
6. EN-DC-0003P-DUO	EntroStar Controller, 2 Reader, Metal Cabinet, PSU	
7. EN-RA-0001P	RJ45/Screw Terminal Adapter	
8. EN-RN-0001P/0002P	Input Termination Unit (single/pack of 25)*	
9. EN-SD-0001P/0002P	Suppression Diode (single/pack of 25)*	
*4-off (FN-RN-0001P) and 2-off (FN-SD-0001P) subblied with items (1) to (6)		

### **Declaration of Compliance:**

EntroStar is certified to EN55024, EN55022 and EN60950-1 in accordance with the '2006/95/EC Low Voltage' and '2004/108/EEC EMC' directives and has been designed to be compliant with UL294 and UL1076.







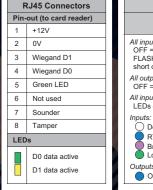
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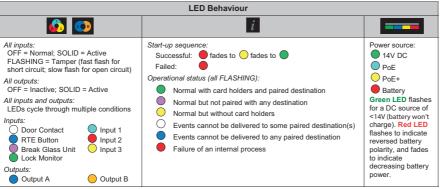


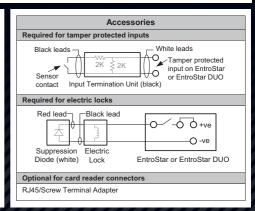
## **INSTALLATION GUIDE**

entrostar.com









#### Notes

PoE/PoE+: Ensure that the overall power requirement is within the PoE/PoE+ limits (9.3W/24.9W; details in 'Power Available for External Equipment' in the technical specifications overleaf). Also, readers and locks may sometimes demand peak currents that cannot be met by the PoE/PoE+ supply. To overcome this, connect a lead-acid battery to the battery terminals.

Inputs: Tamper protected inputs require an Input Termination Unit (ITU) connected at the sensor. See 'Accessories'.

Outputs: Outputs that service electric locks require a suppression diode fitted at the lock. See 'Accessories'.

Default assignments: To change assignments from their defaults, refer to the EntroWatch (or other security management system) documentation.

EntroStar variants: Standard 'EntroStar' supports up to four readers across two doors, while 'EntroStar DUO' supports up to two readers across two doors.

### Recommended Cable Specifications

Inputs: Standard alarm cable (max length 100m)

Outputs: Suitable 2A-rated cable (max length dependent on load)

PoE/PoE+: CAT5 FTP (max length 100m)

Card readers: CAT5 FTP (max length dependent on card reader)
DC supply/battery: Suitable 5A-rated cable (max length 3m)