

## SENTRY CARD READER



### INTRODUCTION

The FLP Sentry card reader is designed to restrict the access control of unauthorized person / vehicle in harsh and hazardous area. It can be configured to read a Proximity card.

It is certified to Ex d, IIB, T6, Div. 1 area where there is a constant risk of an explosive atmosphere.

The FLP Sentry comprises of the electronics that formats the card data for transmission to a host computer / other processor based equipment.

Proximity Card is a non- contact technology where a card is read by passing it within a few centimeters of a glass window on the front of Sentry.

#### Power ON / Card Read:

A bi colour L.E.D is provided to indicate that the Sentry is powered. This changes briefly from Green to Red on each successful card read.

#### Card Present:

A Second L.E.D is fitted to proximity card reader head. This remains illuminated whenever a proximity card is in the range of the sensing windows.

#### Host:

A Third additional L.E.D is under full control of host computer and its application is therefore user defined.

The FLP Sentry communicates as RS-422 or RS-485 serial data. The Sentry can be multi-dropped at this point, whereby up to 64 Sentry can be chained together and connected to a single control port on the host.

For maximum flexibility and ease of use, all communication between the Sentry and its host are ASCII, and are derived from the VT-100 standard. Command Escape Sequences are a sub-set of those used by the Mercury terminal.

A successful read is indicated by the L.E.D & the card data is then transmitted to the host or processor based equipment.

#### Multi drop Communication:

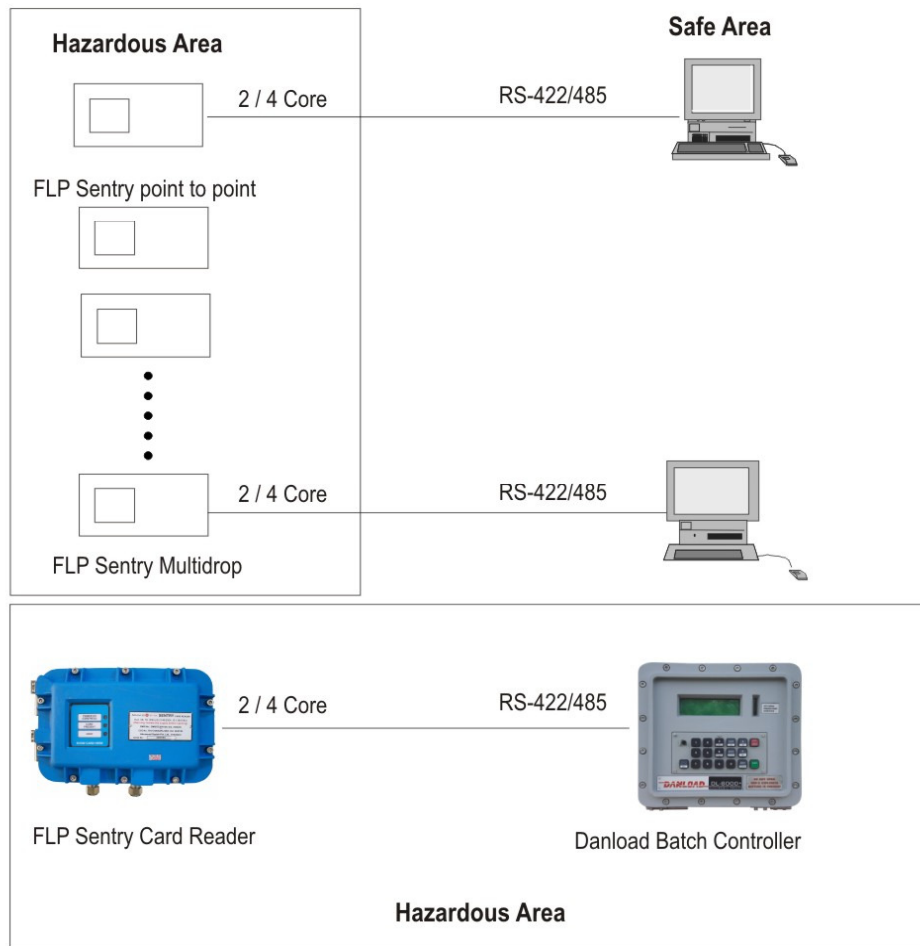
The Magnetic Key Lock Switch in Config Mode along with Host determines the format of the data transmission in multi drop communication. (Magnetic Key Switch is located in bottom right corner of FLP Sentry). All other parameters are set using the remote configuration mode, which are directly controlled and read by the host computer.

#### Point-to-Point Communication:

FLP Sentry can be connected with processor-based equipment in single point communication mode. The Sentry is run in default config mode. In this mode no key lock switch is required to config the Sentry.

## SPECIFICATIONS :

Supply Voltage	24 VDC (+/- 0.5V)	Enclosure	LM 6 Aluminum Alloy
Operating Current	40 mA (Approx.)	Ingress Protection	IP 65
Operating Temperature	0 to 60° C	Area Classification	Div. 1
Storage Temperature	0 to 70° C	Group Classification	Ex d, IIA, IIB, Safe area & IS Version available
Humidity	95% non condensing	Temperature Class	T6
Data Protocol	Based on VT-100	Mechanical Dimension	320 (W) X 150 (H) X 220 (D)
Multi drop	Up to 64 Sentry Card Readers	Weight	6.6 Kg (Approx.)
Baud Rate	9600 baud	Approvals	CMRI, CCOE, ATEX approved (CEmark) Version available



## Advanced Systemek Pvt. Ltd.

299 / 300, G.I.D.C., Makarpura, Vadodara - 390 010, India Ph.: + 91 265 3041100 Fax: + 91 265 3041111

email : [sales@advancedsystemek.com](mailto:sales@advancedsystemek.com) [www.advancedsystemek.com](http://www.advancedsystemek.com)