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, Zone 1 area where there is a constant risk of the explosive atmosphere.

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

Proximity card works on non-contact type technology in which the card is read by passing it within few centimeters of the glass window of sentry.

Power ON/ Card Read

A bi-colour L.E.D is provided to indicate that the Sentry is powered. This turns briefly from green to red on each successful card reading.

Card Present

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

Host

Third L.E.D, which is in full control of the host computer and its application is user defined.

The FLP Sentry communicates using RS-422 or RS-485 serial data protocol. The sentry can be multi-dropped, whereby up to 64 sentry can be daisy chained 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 and the card data is then transmitted to the host or processor based equipment.
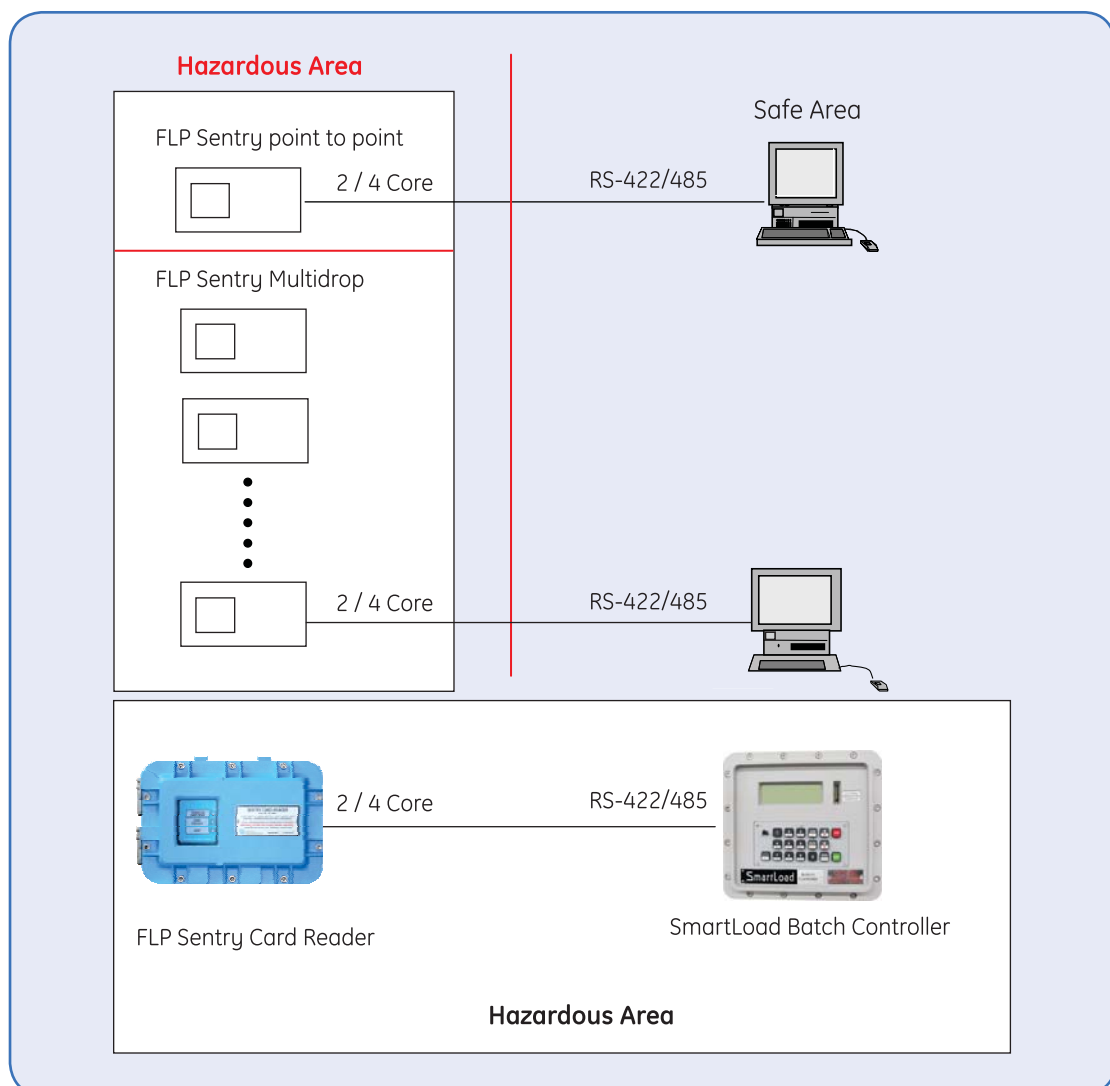
Multi Drop Communication

The Magnetic Key Lock Switch in config mode alongwith Host determines the format of the data transmission in multi drop communication. (Magnetic Key Switch is located at the bottom right corner of the FLP Sentry). All other parameters are set using 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 V DC (+/- 0.5V)/ 230 VAC/ 110 VAC $\pm$ 10%	**Enclosure**	LM 6 Aluminum Alloy
Operating Current	40 mA (Approx.)	**Ingress Protection**	IP 65
Operating Temperature	0 to 60⁰ C	**Area Classification**	Zone 1
Storage Temperature	0 to 70⁰ C	**Group Classification**	Ex d, IIA, IIB
Humidity	95% Non-Condensing	**Temperature Class**	T6
Data Protocol	Based on VT-100	**Mechanical Dimension**	283(H) x 215(W) x 177(D) (Mounting holes provided 130 x 240 mm apart)
Multi Drop	Up to 64 Sentry Card Readers	**Weight**	6.6 Kg (Approx.)
Baud Rate	9600 baud	**Approvals**	CMRI, CCOE (Approved)

Hazardous Area

FLP Sentry point to point

2 / 4 Core

RS-422/485

Safe Area

FLP Sentry Multidrop

2 / 4 Core

RS-422/485

FLP Sentry Card Reader

2 / 4 Core

RS-422/485

SmartLoad Batch Controller

Hazardous Area

1300532R1

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