SafeCOM RFID Tracking System

The SafeCOM RFID Tracking system gives a real time view of the personnel and assets on site, allowing managers to control and monitor operations. The Information processed by the system is flexible and can be used for a variety of applications either onshore or offshore in group II hazardous areas.

- Personnel evacuation systems

- Mustering

- Resource monitoring and time keeping

- Restricted Zones

- POB/POS (Personnel On Board/ Personnel On Site)

- Multi personnel Work Procedures

- STC (Safety Technical Competencies)

An overview of the system

Readers and **Antennas** are installed at entrances and exits to specific zones, Antennas read the **RFID tags** and transmit the unique information up to the server where the tracking software is hosted. These RFID tags can be ID badges or wrist straps. We have designed our RFID technology to be robust and tamper resistant whilst utilising the anti-collision technology allowing multiple tags detected by one antenna at one time. These compact lightweight tags have a 5+ year lifespan.

Up to four **Antennas** can be used per **Reader**, this means a crossroad can be covered with four directions with a single **Reader**. With a maximum of 420 **Readers** per server the system is scalable to cover most large facilities. Our certified CANBUS protocol links the readers to the server; this link can cover up to 4.5km.

As well as identifying RFID Tags the reader has 6 intrinsically safe outputs and 4 intrinsically safe inputs. These can be used for any application specific requirements such as electronic door locks or alarms.

SafeCOM Tracking software

This software is built around safety applications proven in coal mines around the globe and with this functionality we feel that can we can achieve safety aspirations in other hazardous industries. The interface provides a real time view of the operations. This can be done by overviews or a detailed room by room view using the zoom feature.
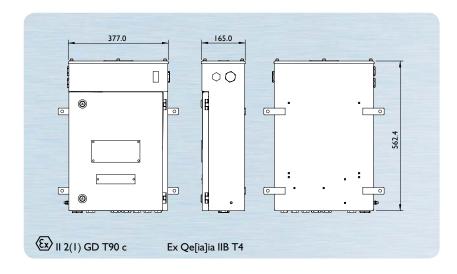
Features

1   Time Reporting

2   Mapping

3   Location reporting

4   Route Logging

5   Icons depicting certain Skills, Medical or Fire Training

6   Real-time display of number of people in a zone

7   Restricted areas

8   Icons for STC's (i.e. Electrician)

The system requires one server but can have multiple clients allowing access to the information across the facility. It also has the capability for both server and client to be hosted on one PC.
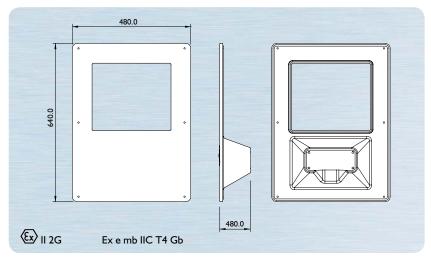
Safety in Automation ⟨Ex⟩

SafeCOM Readers

The RFID reader is ATEX certified for Zone 1 and can accommodate and control 4 antennas, 6 outputs and 4 inputs with intrinsically safe CANBUS connectivity. The reader and power supply are housed in a partitioned stainless steel enclosure to save space.

377.0 165.0 562.4

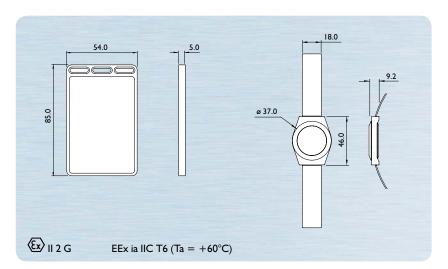⟨Ex⟩ II 2(1) GD T90 c   Ex Qe[ia]ia IIB T4

SafeCOM Antennas

We have just improved our current antenna design by reducing the footprint for less impact onto walk ways. If larger locations are to be covered we have a hose antenna with a certified maximum circumference of 20 meters .

The ability to mix and match antennas gives flexibility to install tracking to all the required zones across the site, as well as tracking vehicles or assets using roadways.

480.0 640.0 480.0

⟨Ex⟩ II 2G   Ex e mb IIC T4 Gb

RFID Tags

We supply two types of intrinsically safe lightweight RFID tags, you can select the best form factor for your operation with housings for fitting tags to assets or watch tags with straps for fitting to people.

54.0 85.0 5.0 18.0 9.2 ø 37.0 46.0

⟨Ex⟩ II 2 G   EEx ia IIC T6 (Ta = +60°C)

Please email safecom@davisderby.com if you require more information on our products or questions regarding international certification and approvals.

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