The Romteck Radio Frequency Identification (RFID) reader can provide a method of long range identification and authentication of various plant and equipment. The RFID module can extend the functionality of other Romteck products such as the Fuel Management System (FMS), to validate, Vehicles, Gensets, Lighting towers and more.

The RFID reader can obtain Engine Hours, Temperatures or other sensor inputs.

**SYSTEM INSTALLATION**
The RFID reader can be either standalone and interface to access systems such as electronic gates or can be included as part of a Romteck product such as the Fuel Management System (FMS). The RFID reader can be 240 volt mains powered or 24 volt DC such as in a truck mounted installation.

**TAGS and INSTALLATION**
There are two main types of tags: The “Smart Tag” is capable of collecting data whilst the standard “Passive Tag” is used for long range identification only. The RFID Tags can be screw mounted or glued to the equipment. The “Smart Tags” use a sealed battery with a 10+ year life span.

**APPLICATIONS**
Security and Access Control, Asset Identification, Electronic Fence, Sensor Data Acquisition. Temperature threshold monitoring, G-force gauging and integrity verification.
System Features

- Interfaces to other security systems
- Records - Engine Hours
- Records - Temperature
- Industrial design - IP67 rated.
- Long Range up to 30 metres*
- Wide range temperature operation
- On board real-time clock
- Logging with time stamp

*Depending on tag model

Reader System Specifications

Networking
- WiFi (802.11b/g)
- Mobile: GSM / 2G / 3G
- Ethernet / CAT 5
- Serial: RS-232 / RS-422 / RS-485

RFID Reader
- 4 Independent antennas which will cover 4 separate zones.
- ISO 18000-6C or 6B (optional)
- Adjustable power up to 1.4 watt transmit power

Tag Specifications

RFID Standard
- ISO18000-6C (EPC Class 1 and 3) Gen.2
- 860 to 960MHz (usually configured to 900Mhz ISM band)

Interfaces
- 4 Digital OR 2 Analog Inputs OR 1 Digital and 1 Analog Input. (depends on custom specifications)

Data Logging
- On-board Realtime Clock
- On-board temperature sensor

Electrical
- 10+ Year battery life (on smart tags)

Physical
- Temperature range of –40 - 125°C
- IP67 (Waterproof)
- Dimensions - 155mm x 32mm x 25mm

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