

# *Delta RFID*

*Long range wireless  
Identification and tracking*



# Delta RFID

## Radio Frequency Identification.

Designed for personnel and vehicles,  
for underground and surface operation.  
Prepared for integration in the *Delta VOD*,  
Ventilation On Demand system.

The Delta RFID system is designed to meet the stringent requirements for underground operation. The Delta RFID is a complete and flexible system, based on many years of experience in underground operation. Included are tags for personnel and vehicle, and readers for simple or advanced detection.

### Tag for vehicle installation

The vehicle, V-Tag is for permanent installation on a truck or other moveable equipment. Each tag has a unique ID, logged in the central database. The V-Tag can in addition to identify the vehicle, also send status bits and/or temperature to the database regarding the vehicle operation. For diesel engines, diesel consumption or load can be monitored.

#### Technical data:

Operating radio frequency	: EU: 868,35 MHz USA/Canada: 916,50 MHz
Antenna	: Internal or External, installation dependent.
Detection range	: Up to 100m
Communication	: Direct to leaky feeder by optional VHF/UHF module
Operating voltage	: 6 to 35VDC
Power consumption	: Less than 2mA
Signal inputs	: 4 ON-OFF signals and one analogue signal. Digital temperature and/or humidity sensor, Temp. -20 to +85°C. Humidity: 0 to 100% Rel. humidity
Connections	: 9 pin connector with 3m cable.
Front panel	: One push buttons, 2 LED status indicators.
Dimensions	: H: 206mm W: 80mm D: 60mm.
Weight	: 0,4kg

### Tag for personnel

The personnel tag, P-Tag is available in two versions:

P-Tag 1, to be carried in a pocket or a belt

P-Tag 2, for integration in the cap lamp, battery compartment.

#### Technical data:

Operating radio frequency	: EU: 868,35 MHz USA/Canada: 916,50 MHz
Antenna	: Integrated
Detection range	: Up to 50m
Battery capacity	: More than two years of normal operation Low cost replaceable battery
Front panel	: One LED status indicator. One push-button.
Dimensions	: H: 87mm W: 55mm D: 15mm. (Thick Creditcard size)
Weight	: 90g
Protection	: IP67

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