

# uPASS Go Long-range UHF Reader for Vehicle Identification

## Product Description

The uPASS Go is a UHF RFID reader for long-range vehicle identification. Based on passive UHF technology, vehicles are identified up to 10 metres\*. The uPASS Go complies with the ISO18000-6C and EPC Gen 2 directive. As the uPASS Go is used in combination with battery free UHF (EPC Gen 2) tags, the solution is cost efficient. It is ideal for convenient vehicle access to car parks, gated communities and staff parking areas.

### Communication interfaces

The uPASS Go supports a variety of industry-standard communication interfaces, such as RS485, Ethernet, Wiegand and clock & data. This enables seamless integration into any existing or new access control or parking system. Existing proximity Wiegand reader installations can be upgraded without additional wiring.

### OSDP capability

The uPASS Go UHF RFID reader supports the Open Supervised Device Protocol (OSDP v2) for automatic vehicle identification applications. OSDP enables advanced and secure channel communication between the uPASS reader and the controller.

### TCP-IP protocols supported

Connecting the uPASS Go reader over the Ethernet interface offers the possibility to support TCP-IP. This opens up new possibilities to perform remote configurations and updates with the user friendly online configuration interface.

### Easy installation

The uPASS Go slim housing fits perfectly in any vehicle gate environment. It can be installed with the supplied mounting set on an entry pedestal or wall near the barrier. With the optional Mount Set Extension, it can be mounted on a wall or ceiling in any angle for an optimal read area. The service hatch offers convenient access to the interfaces for installation and maintenance.

### Built for outdoor use at the perimeter

The reader features a weather resistant housing and is fully operable in -30 to +60°C, which means it can withstand the harshest outdoor environments. When exposed to extreme sunny conditions it is recommended that the optional Weather Protection Hood is fitted. As the reader is typically positioned at the perimeter, it has a tamper switch to immediately provide a tamper indication.

### Convenience for the driver

With the circular antenna polarisation, the tag orientation on the windscreens becomes irrelevant as long as the tag is in line of sight for the reader. Especially convenient for cars with metalised windscreens with only a small area without metal. The built-in beeper and high intensity LED provide audible and visual feedback on the identification of a tag in all operating modes.

*\* In combination with UHF Windshield Tag. The maximum read range depends on identifier type, the installation and environment.*

## Features

- ▶ automatic vehicle identification
- ▶ read range up to 10 metres\*
- ▶ operates with passive UHF tags (EPC Gen 2)
- ▶ supports variety of communication protocols
- ▶ easy installation and maintenance
- ▶ robust reader for outdoor use



## Specifications

Dimensions	240 x 225 x 71 mm
Colour	RAL7016 cover / RAL9006 chassis
Weight	1 kg
Protection class	IP66 (NEMA4x)
Material	UL ASA+PC chassis and cover
Operating temp.	-30 to +60°C
Storage temp.	-30 to +60°C
Relative humidity	10% to 93% non-condensing
Power supply	24VDC recommended, for 12VDC see wiring preconditions 12-24VDC ±10% linear supply
Power consumption	0.5A@24VDC; 1A@12VDC
Power supply wiring	Max. 50 metres, min. AWG23/0.25mm <sup>2</sup> @24VDC Max. 5 metres, min AWG26/0.15mm <sup>2</sup> @12VDC
Read range	Up to 10 metres with UHF Windscreen Tag
Operating frequency	865-928 MHz - set to regional requirements and restrictions
Antenna polarisation	Circular
Air interface	According to ISO 18000-6 C; EPC Gen 2
Communication I/F	Wiegand, RS485, Ethernet 10/100Mbps and USB-C service I/F
Comm's protocols	OSDP v2, including secure channel communication, TCP-IP, CR/LF and various OEM protocols (see uPASS firmware guide for more information)
Relay output	1 relay output (NO, common, NC), 24 VDC 2A
Input	Read disable input; 3 x TTL general purpose inputs
Output	Wiegand, Magstripe (clock & data)
Cable specifications	Wiegand - 150 m 22AWG
Tamper switch	Magnetic switch, normally closed
Standards	CE, FCC, UL, IC, ACMA, R-NZ Consult Nortech for country specific standards

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### Typical Application



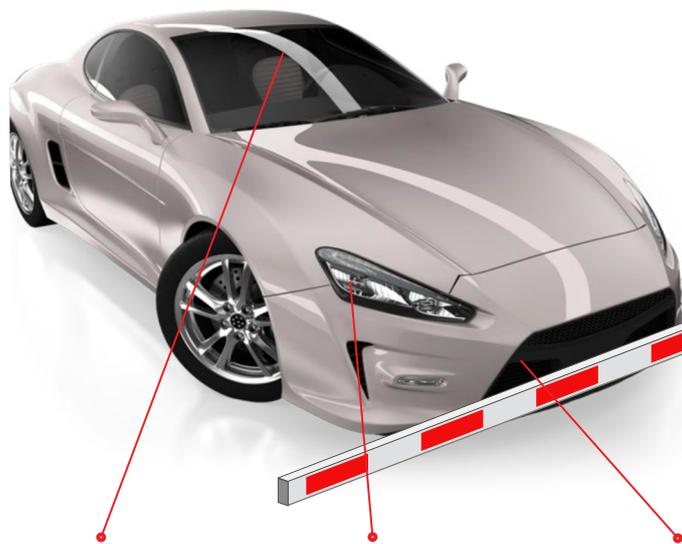
Car parks



Gated communities



Staff parking areas



Reader faced towards car windscreen

Best practice is to mount the reader 1.5 to 2m above the highest tag placement

2.5 to 3m

#### Windscreen Tags

- ▶ Cost effective
- ▶ Long range (passive)
- ▶ Inside application
- ▶ 360 degrees tag orientation



#### Exterior Tags

- ▶ External mount
- ▶ Sticker tag
- ▶ Designed for use on non-metallic surfaces



#### Heavy Duty Tags

- ▶ Invisible behind grill
- ▶ Heavy duty application
- ▶ Superior read range
- ▶ Designed for use on metallic surfaces



#### Cards

- ▶ ISO & Combi options
- ▶ Dual technology in a single credential



### Ordering Information

<b>9234195</b>	uPASS Go (ETSI) Long-range UHF Reader including Mount Set	<b>9215255</b>	UHF exterior Tag. Suitable for mounting on headlights
<b>9567593</b>	Mount Set Extension	<b>9224726</b>	UHF Exterior Tag W26 Pre-programmed
<b>9567658</b>	Weather Protection Hood	<b>9943943/UPC97</b>	UHF ISO Card
<b>9564233</b>	TCC270 TRANSIT Compatible Converter	<b>9942343/UPC43</b>	Combi card UHF - MIFARE
<b>9946918/UPT18</b>	UHF Windscreen tag. Tamper Resistant	<b>9206388</b>	Combi card UHF - MIFARE DESfire
<b>9942335 /UPT35</b>	UHF Windshield Tag. Tamper Resistant. Wiegand 26 Pre-programmed	<b>9943960</b>	Combi card UHF - LEGIC Advant
<b>9219641</b>	UHF Heavy Duty Tag designed for use on metallic surfaces	<b>9954104</b>	Combi card UHF - HID Prox
		<b>9959343</b>	Combi Card UHF - HID iCLASS