# Omni-ID® Adept 500

Omni-ID Adept 500 is a small circular UHF hard tag designed for permanent attachment to the shoulder of industrial gas cylinder assets. This RFID tag with its superior on-metal performance formed from durable high performance components, allows both portal and handheld reads in outdoor and harsh industrial environments.
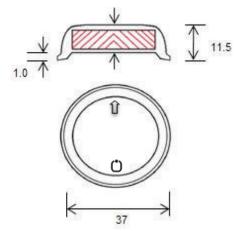
## Building Intelligent Supply Chains

With its high performance on metal and highly impact resistant thermoplastic elastomer casing, Omni-ID Adept 500 is ideally suited to industrial gas cylinder assets with radius of curvature greater than 40mm.

▶ Gas Cylinders

▶ Beverage Kegs

## Physical Specifications

| | |
|---|---|
| Encasement | Durable Thermoplastic Material |
| Size (mm) (tolerance) | 37.0 x 37.0 x 11.5 ( +/- 1.0 ) |
| Size (in) (tolerance) | 1.46 x 1.46 x 0.45 (+/-0.04) |
| Weight (g) | 9.8 |



Dimensions stated in mm

## RF Specifications

| | |
|---|---|
| Protocol | EPC Class 1 Gen2 |
| Frequency Range (MHz) | 860-940 (GS) |
| Read Range (Fixed reader)[1] | Up to 5.0m (16.4 ft) |
| Read Range (Handheld reader)[1] | Up to 5.0m (16.4 ft) |
| Material Compatibility | Optimized for metal |
| IC Type (chip) | Alien H3 |
| Memory [2] | EPC - 96bits User - 512bits TID - 64bits |

1. Quoted performance achieved using standard testing methodology. Read range will vary with reader hardware and output power.

2. EPC and User memory are reprogrammable, TID is locked at point of manufacture.
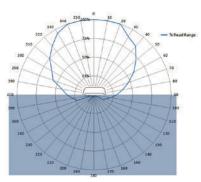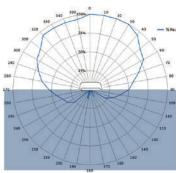
## Radiation Patterns

**On Metal sheet**

![Omni-ID® Building Intelligent Supply Chains]

# Related Products and Services

▶ **Omni-ID Adept 400-** High impact resistance RFID tag for easy strap or adhesive attachment to industrial equipment.

▶ **Omni-ID Dura 600 -** Small form factor, high impact resistant, on-metal RFID tag for adhesive attachment to industrial assets.

▶ **Service Bureau** - Omni-ID offers a full service bureau for printing and pre-encoding Omni-ID tags at point of manufacture.



## Environmental Specifications

| | |
|---|---|
| Operating Temperature | −20 to +65°C |
| Long term Max Temperature [1] exposure - (days,weeks,years) | +65°C |
| Short term Max Temperature [1] exposure - (minutes,hours) | +75°C |
| IP Rating | IP68 |
| Shock and Vibration | MIL STD 810-F |
| Attachment | Adhesive (standard) |
| Certifications | RoHS approved CE approved ATEX/IECEx certified (option) US&Canada (C1D1/D2) certified (option) |
| Warranty | 3 years |

## Ordering Information

| | |
|---|---|
| Order Numbers | 045- US, EU :304 (ATEX/IECEx certified) :307 (US&Canada (C1D1/D2) certified) :701 (Standard Service Bureau) :702 (Custom Service Bureau) |

1. Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.
2. Testing methodology available on request

![CE] ![RoHS] ![Ex ATEX]

**Omni-ID office locations:   US | UK | China | India | Southeast Asia**

**For product or technology inquiries email: sales@omni-id.com**