# Pico iN Plus

The Xerafy Pico iN Plus offers a highly reliable RFID proposition thanks to its unique embeddable design. Its breakthrough read distance to size ratio makes it ideally suited for OEM manufacturers looking to bring native RFID capabilities to their equipments for MRO, Oil and Gas, Energy and Military.

**Fits small size**

**Powerful on-metal performance**

**Exceptional durability**

**Embeddable**

**Hi-Temp**

## Performance Characteristics

| | |
|---|---|
| **Read range (handheld)**[1] | Up to 4.6 ft (1.4 m) |
| **Read range (fixed)**[1] | Up to 7 ft (2 m) |
| **Polarization** | Linear |
| **Attachment** | Epoxy, injection mould |

1. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

## Functional Specifications

| | |
|---|---|
| **RF protocol** | EPC global Class 1 Gen2 |
| **Frequency** | 902-928 (US) ; 865-868 (EU) |
| **IC type (chip)**[1] | Alien Higgs-3 |
| **Memory**[2] | 96-EPC bits, 64-bit unique TID, 512 -bit user memory |
| **Material** | Ceramic |

1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.

2. EPC and User Memory can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.
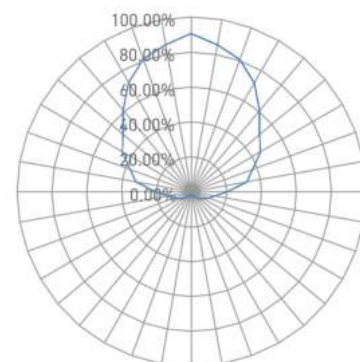
- Hand Tools and Equipments
- Oil Wells Equipments
- MRO Tool Tracking

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## Radiation Pattern



RoHS 2002/95/EC   CE   Ex   REACH COMPLIANCE

## Environmental Specifications

| | |
|---|---|
| Operational temperature | -30°C to +85°C |
| Survival temperature | -40°C to +150°C (long term) |
| Peak temperature | +220°C |
| IP rating | IP68 |
| Shock (drop) | 3 ft (1 m) to concrete/granite |
| Vibration | MIL-STD-810G |

## Industry Compliance

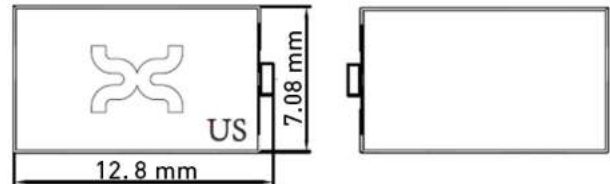| | |
|---|---|
| RoHS | EU Directive 2011/65/EU |
| CE | Yes |
| ATEX/IECEx | Compliant |
| Warranty | 1 year |

## Order Information

| | |
|---|---|
| X3210-US000-H3 | Pico iN Plus US |
| X3210-EU000-H3 | Pico iN Plus EU |
| Optional service | Encoding / Printing / Laser Etching |

## Product Dimensions and Weight

| | |
|---|---|
| Dimensions (in) | ø 0.5 x 0.28 x 0.12 |
| Tolerance | +/- 0.004 |
| Dimensions (mm) | 12.8 x 7.08 x 3.08 |
| Tolerance | +/- 0.1 |
| Weight | 0.05 oz (1.4 g) |

## Installation Instructions
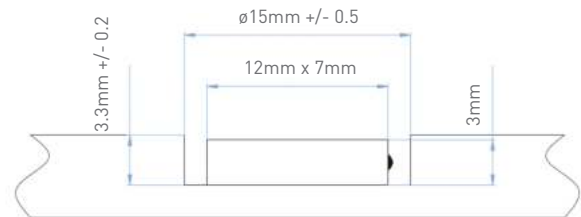
To properly embed Pico iN Plus, first prepare a socket to meet the dimensions shown in the socket dimension figure above.

1. Apply epoxy to bottom of tag
2. Position tag in center of socket
3. Fill in socket with resin
4. Make sure to fill any gaps between tag and socket wall
5. Allow resin to cure and tag is ready for use

### About Xerafy

Xerafy designs and manufactures the world's toughest RFID tags to power Industrial IoT applications in Aerospace, Oil & Gas, Automotive, Healthcare and Manufacturing.

For Product inquiries: sales@xerafy.com
Singapore | China | US | UK

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