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.
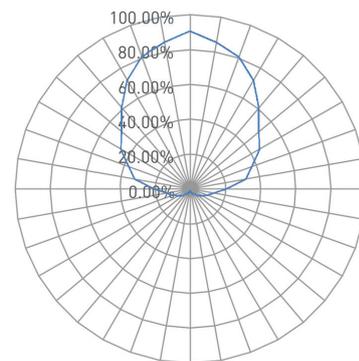
- Hand Tools and Equipments
- Oil Wells Equipments
- MRO Tool Tracking

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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

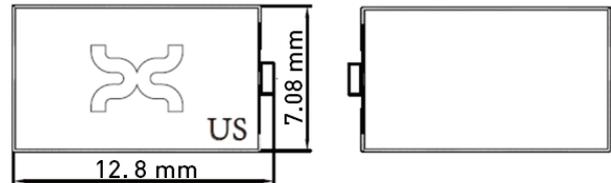|	
RoHS	EU Directive 2011/65/EU
CE	Yes
ATEX/IECEx	Compliant
Warranty	1 year

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)

7.08 mm

12.8 mm

US

Installation Instructions

ø15mm +/- 0.5

12mm x 7mm

3.3mm +/- 0.2

3mm
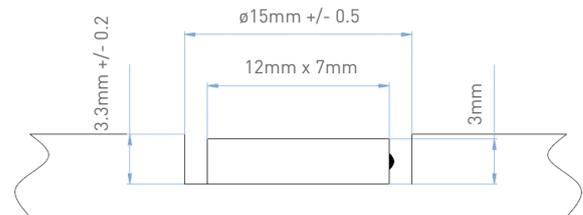
To properly embed Pico iN Plus, first prepare a socket to meet the dimensions shown in the socket dimension figure above.

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
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