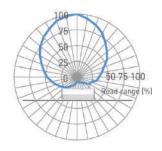




XENSE TEMP

Technical Specifications

- RF protocol EPC global Class 1 Gen 2
- Frequency 902-928 MHz (US); 865-868 MHz (EU)
- IC type (chip)¹ Asygn AS3211
- Chip memory² 192 bits EPC; 48 bits TID; 32 bits user memory
- Customizable sensing features
 Temperature; humidity; strain; ambient light; pressure; magnetic field (hall effect); electrical continuity
- Read range off metal³ Up to 9.84 ft (3 m)
- Read range on metal³ Up to 6.56 ft (2 m)
- In concrete ³ Up to 14.76 ft (4.50 m)
- Polarization Linear
- Radiation pattern on metal



Key Features

- + Wireless: battery-free
- + Temperature sensing: monitor temperatures
- + Embeddable: for concrete
- + IP68 rating: waterproof
- + Industry grade mounting systems

Applications

- Concrete curing
- Infrastructure monitoring
- Manufacturing assets

Environmental Specifications

Temperatures



- Operational -40°C to +85°C
- Survival -40°C to +85°C

- **IP** rating IP68
- Compression strength 29 psi (200 kPa)
- **Shock** 3ft (1 m) to concrete/granite
- Vibration MIL-STD-810G
- Warranty 1 year

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 $^{^{}m 1}$ The chip data retention is up to 50 years, based on chip operating under general environment conditions.

² EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

³ Fixed reader



Physical Specifications

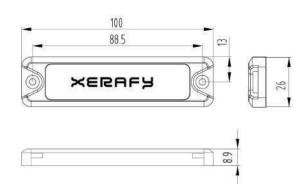
- Material Industry grade polymer, Copper
- **Dimensions (in)** 3.94 x 1.02 x 0.35
- **Dimensions (mm)**¹ 100 x 26 x 8.90
- **Rivet hole diameter** 0.137 in +/-0.008 (3.50 mm +/-0.20)
- **Weight** 0.68 oz (19.40 g)

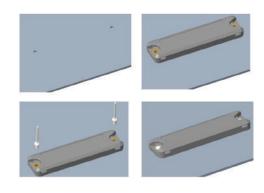
Mounting Systems

- · Casting
- · Pop rivets
- · Screws
- · Cable ties
- · Industrial adhesive (optional)

Installation Instructions

- 1. Use M4 rivets for attachment:
- · Drill two holes (Ø 4) in the metal surface, pitch: 88.50 mm.
- · Utilize M4 rivets in conjunction with a rivet gun to securely fasten the tag onto the metal surface.
- 2. Use M4 screws for attachment:
- · Drill two holes (ø 3.20) in the metal surface, pitch: 88.50 mm.
- · Perform a M4 thread tapping procedure.
- · Utilize M4 screws to securely attach the tag to the metal surface.





Industry Compliance

















Order Information

XENSE Temp Concrete US: X90A0-US100-AS3211

XENSE Temp Concrete EU: X90A0-EU100-AS3211

Customization Options

Encoding

Laser Marking

ATEX Certified Version

Printing

Industrial Adhesives

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¹ Tolerance: +/- 0.02: +/- 0.50