



Omni-ID® Fit 400

The Fit 400 is a small form factor, high performance RFID tag available in two versions. The NEW High Temperature version expands the capabilities of this small ceramic tag to cycling applications with High Temperatures to 225°C. Don't sacrifice performance for size. With up to a 4 meter read range, the Fit 400 is the perfect solution when space is limited, but performance is demanded.

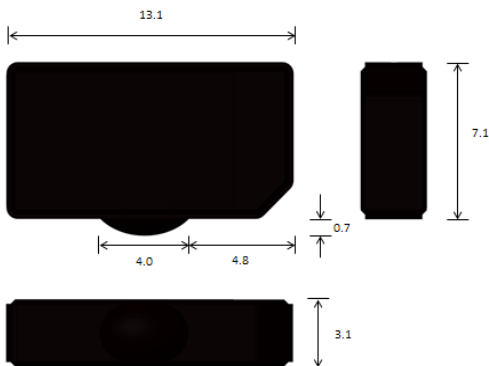
Building Intelligent Supply Chains

With its small form, temperature versions and high performance, Omni-ID Fit 400 tags are ideally suited to tracking small metal assets such as :

- ▶ Metal Hand Tools.
- ▶ Metal IT assets including covert tracking
- ▶ Embedding into metal components
- ▶ Autoclaves and high temperature sterilizations

Physical Specifications

Finish	Painted black
Size (mm) (tolerance)	13.1 x 7.1 x 3.1 +/-0.5
Size (in) (tolerance)	0.52 x 0.28 x 0.12 +/-0.02
Weight (g)	1.6



Dimensions stated in mm apply to both standard and high temperature versions.

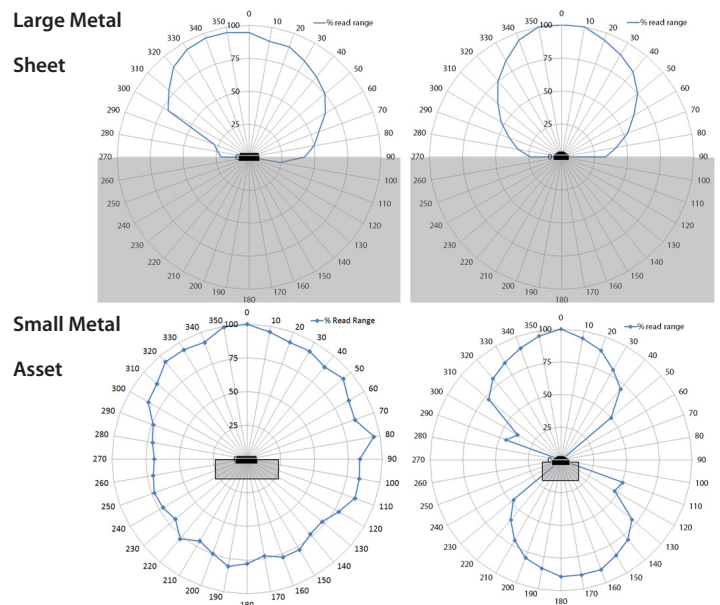
RF Specifications

Protocol	EPC Class 1 Gen2
Frequency Range (MHz)	866-868 (EU) 902-928 (US)
Read Range (Fixed reader) ¹	Up to 4m (13.1ft)
Read Range (Handheld reader) ¹	Up to 2m (6.6ft)
Material Compatibility	On Metal only
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



Related Products and Services

- ▶ **Omni-ID Fit 200** - Extremely small footprint RFID tag for tracking very small metal assets.
- ▶ **Omni-ID Fit 210** - High Temperature, slim, low profile, on metal RFID tag optimized for application to small metal assets and for embedding.
- ▶ **Omni-ID Fit 400 P** - Small footprint tag optimized for application to small plastic assets and embedding.
- ▶ **Service Bureau** - Omni-ID offers a full service bureau for printing and pre-encoding Omni-ID tags at point of manufacture.



Environmental Specifications

STANDARD Version

Operation Temperature¹ -20°C to +85°C
 Max Temperature Exposure¹ -20°C to +85°C

Attachment Permanent liquid adhesive (not included)
 Film adhesive (option)

IP Rating IP68

Shock and Vibration MIL STD 810-G

Warranty 1 year

HIGH TEMPERATURE Version

Operation Temperature¹ -20°C to +85°C
 Max Temperature Exposure¹ -20°C to +225°C

Attachment² Permanent liquid adhesive (not included)
 Film adhesive (option for placement only)

IP Rating IP68

Shock and Vibration MIL STD 810-G

Warranty 1 year

¹Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings.

²The product has been designed for optimal RF performance when used with 130 micron +/-20% adhesive under the tag.

Ordering Information

STANDARD Version

Order Codes 051 – EU, US

Option Codes :304 (ATEX/IECEX certified)
 :307 (US&Canada (C1D1/D2) certified)
 :502 (Film adhesive)
 :701 (Standard Service Bureau)
 :702 (Custom Service Bureau)

HIGH TEMPERATURE Version

Order Codes 124 – EU, US

Option Codes :304 (ATEX/IECEX certified)
 :307 (US&Canada (C1D1/D2) certified)
 :502 (Film adhesive for placement only)
 :701 (Standard Service Bureau)¹
 :702 (Custom Service Bureau)¹

¹ Label is not rated for high temperatures.

Certifications:



RoHS approved
 CE approved
 ATEX/IECEX certified (option)
 US & Canada (C1D1/D2) certified (option)

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