Omni-ID®

Building Intelligent Supply Chains

Omni-ID® Fit 400P

Omni-ID Fit 400P is a small form factor, high performance RFID tag optimized for attachment to plastic assets and embedding into plastic materials. Fit 400P features a high sensitivity RF design and broad read angle enabling handheld and portal reading. Compatible with finishing processes including heat shrink, potting and injection moulding, Fit 400P is an excellent covert tag solution.

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With its small form and high performance, Omni-ID Fit 400P tags are ideally suited to asset tracking applications including:

▶ Plastic handles on hand tools.

▶ Small Plastic tools.

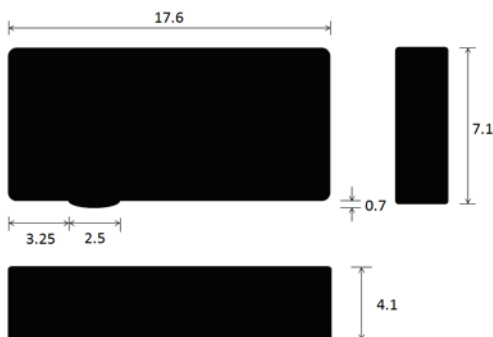▶ Embedding into plastic components on larger high value assets.

Physical Specifications

Encasement	Durable Paint
Size (mm) (tolerance)	17.6 x 7.1 x 4.1 +/- 0.5
Size (in) (tolerance)	0.70 x 0.28 x 0.16 +/-0.02
Weight (g)	2.6

Dimensions stated in mm
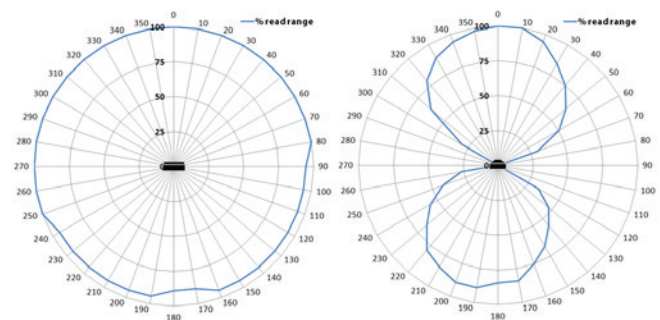
RF Specifications

Protocol	EPC Class 1 Gen2
Frequency Range (MHz)	866-868 (EU) 902-928 (US)
Read Range (Fixed reader)[1]	Up to 3.5m (11.5ft)
Read Range (Handheld reader)[1]	Up to 1.75m (6.0ft)
Material Compatibility	Plastic and non-metallic substrates
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 Plastic

Related Products and Services

▶ **Omni-ID Fit 210 -** Low profile RFID tag optimized for application to small metal assets and embedding.

▶ **Omni-ID Fit 200 and Fit 400 -** Small footprint tags optimized for application onto small metal assets and embedding.

▶ **Omni-ID Exo 400P-** Small form factor, durable tag for applications involving higher impact requirements..

▶ **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	-20ºC to +85ºC
Thermal Cycling Exposure	-20ºC to +65ºC or 0ºC to +85ºC
IP Rating	IP68
Shock and Vibration	MIL STD 810-F
Attachment	Permanent liquid adhesive (not included) Film adhesive (option)
Certifications	RoHS approved CE approved ATEX/IECEx certified (option) US&Canada (C1D1/D2) certified (option)
Warranty	1 year

Ordering Information

Order Numbers	052 – EU, US :304 (ATEX/IECEx certified) :307 (US&Canada (C1D1/D2) certified) :502 (film adhesive) :701 (Standard Service Bureau) :702 (Custom Service Bureau)