



Omni-ID® Fit 210

The Fit 210 is a low profile, small form factor RFID tag available in two versions. The NEW High Temperature version expands the capabilities of this small narrow tag to cycling applications with High Temperatures to 225°C. Both versions are ideal for integration within finishing processes, such as dipping, coating, heat shrinking and moulding in the harshest of environments.

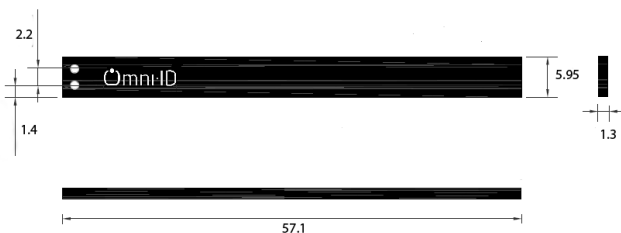
Building Intelligent Supply Chains

With its low profile and durable design Omni-ID's Fit 210 tags are ideally suited to tool tracking and embedding applications such as:

- ▶ Hand Tools including wrenches and ratchet tools
- ▶ Paint processes in automotive
- ▶ Integration within IT assets at point of manufacture
- ▶ Healthcare - autoclaves and high temperature sterilization

Physical Specifications

Finish	Standard version is black High Temperature version is red
Size (mm)	57.1 x 5.95 x 1.3
Size (in)	2.25 x 0.23 x 0.05
Weight (g)	1.0



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

RF Specifications

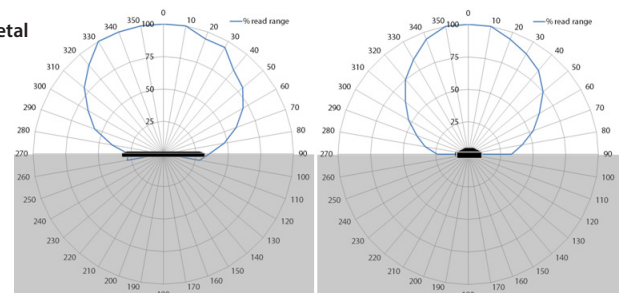
Protocol	EPC Class 1 Gen2
Frequency Range (MHz)	866-868 (EU) 902-928 (US)
Read Range (Fixed reader) ¹	Up to 2m (6.6ft)
Read Range (Handheld reader) ¹	Up to 1m (3.3ft)
Material Compatibility	Optimized for metal substrates
IC Type (chip)	Alien H3
Memory ²	EPC - 96bits User - 512bits TID - 64bits

1. Quoted performance achieved using standard testing methodology. Read range will vary with reader hardware and output power.

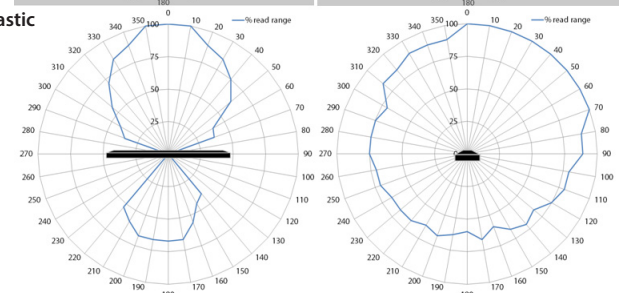
2. EPC and User memory are reprogrammable, TID is locked at point of manufacture.

Radiation Patterns (Standard version)

On Metal



On Plastic



Related Products and Services

- **Omni-ID Fit 200** - Small footprint tag optimized for application to small metal assets and embedding.
- **Omni-ID Fit 400** - High Temperature, low profile, on metal RFID tag optimized for application to small metal assets and for embedding.
- **Omni-ID Fit 400P** - 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 Temperature ¹	-20°C to +85°C
Max Temperature Exposure ¹	-20°C to +120°C

Attachment	Permanent liquid adhesive (not included) Film adhesive (option)
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IP Rating	IP68
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Shock and Vibration	MIL STD 810-G
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Impact ²	2kg from 1m
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Warranty	1 year
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HIGH TEMPERATURE Version

Operation Temperature ¹	-20°C to +85°C
Max Temperature Exposure ^{1,3}	-20°C to +225°C

Attachment	Permanent liquid adhesive (not included) Film adhesive (option for placement only)
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IP Rating	IP68
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Shock and Vibration	MIL STD 810-G
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Impact ²	2kg from 1m
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Warranty	1 year
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¹Excludes adhesive options, consult adhesive datasheets for recommended temperature ratings

²Testing methodology available on request.

³Maximum constant exposure 12 hours

Ordering Information

STANDARD Version

Order Codes	041 - (EU, US)
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Option Codes	:303 (Customization) :304 (ATEX/IECEx certified) :307 (US&Canada (C1D1/D2) certified) :502 (Film adhesive) :701 (Standard Service Bureau)
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HIGH TEMPERATURE Version

Order Codes	123 - (EU, US)
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Option Codes	:303 (Customization) :304 (ATEX/IECEx certified) :307 (US&Canada (C1D1/D2) certified) :502 (Film adhesive for placement only) :701 (Standard Service Bureau) ¹
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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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