Omni-ID®
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Omni-ID Flex® Rigid

Omni-ID Flex Rigid is a low profile, medium range, durable RFID tag for industrial and outdoor applications. Omni-ID Flex Rigid features a material agnostic, regional, RF design, making it suitable for asset tracking with handheld and portal use cases. Encased in a durable encapsulation Omni-ID Flex Rigid is capable of surviving long term use in outdoor environments.
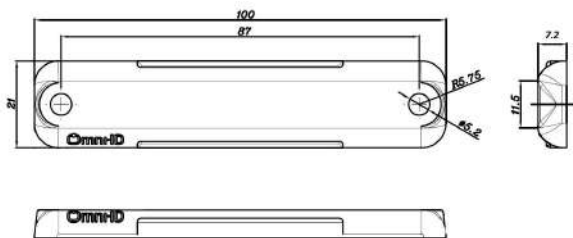
Applications

With its on and off metal read performance and durable encasement, Omni-ID Flex Rigid is ideally suited to manufacturing and logistics applications, including tracking:

▸ Smaller returnable transit items (regional).

▸ Containers within cyclic supply loops.

▸ Deployed field assets for maintenance recording.

Physical Specifications

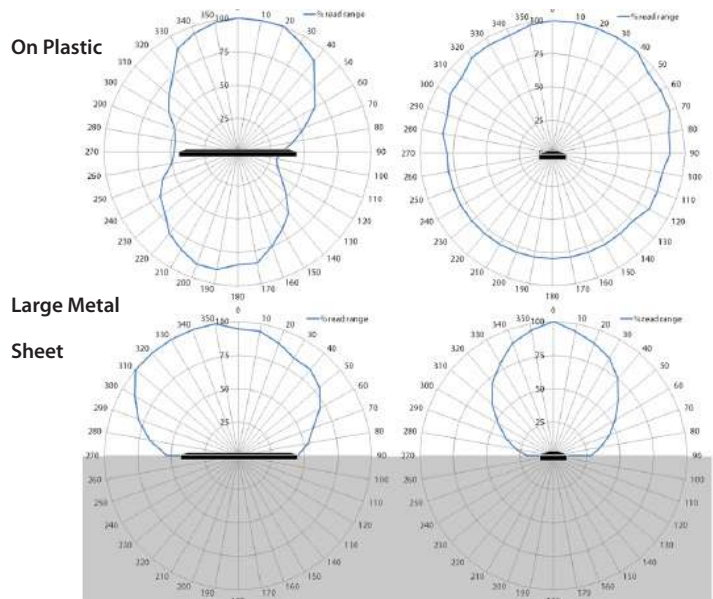|	
Encasement	ABS or Polycarbonate
Size (mm) (tolerance)	100 x 21 x 7.2 (+/- 1.0 mm)
Size (in) (tolerance)	3.9 x 0.8 x 0.28 (+/- 0.04 in)
Weight (g)	11.6

Dimensions stated in mm

RF Specifications

Protocol	EPC Class 1 Gen2
Frequency Range (MHz)	902-928 (US), 866-868 (EU) 952-954 (JPN)
Read Range (Fixed reader)[1]	Up to 5.0 (US), Up to 5.0 (EU) Up to 4.0 (JPN)
Read Range (Handheld reader)[1]	Up to 2.5 (US), Up to 2.5 (EU) Up to 2.0 (JPN)
Material Compatibility	Any
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

Large Metal Sheet

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Visit **www.omni-id.com** to learn more about
the complete line of Omni-ID RFID products.

Related Products and Services

▶ **Omni-ID Max Rigid -** High performance, long range RFID tag product for manufacturing and logistics applications.

▶ **Omni-ID Max SQ-D-** Extreme durability, long range and global operability in a small, square footprint, on metal RFID tag.

▶ **Omni-ID Flex Label-** Low profile, medium range RFID tag for mixed metal and plastic IT asset environments.

▶ **Service Bureau** - Omni-ID offers a full service bureau for printing and pre-encoding Omni-ID tags at point of manufacture.

Environmental Specification

Operating Temperature	ABS : –40 to +55 ℃ PC : -40 to +85℃
Long term Max Temperature [1] exposure - (days,weeks,years)	ABS : +55 ℃ PC : +85℃
Short term Max Temperature [1] exposure - (minutes,hours)	ABS : +65 ℃ PC : +95℃
IP Rating	IP68
Shock and Vibration	MIL STD 810-F
Impact	10kg from 1m
Attachment	Manual (std) Film adhesive (option) Standard foam adhesive (option) Premium foam adhesive (option)
Certifications	RoHS approved CE approved ATEX/IECEx certified (option) US&Canada (C1D1/D2) certified (option)
Warranty	3 years

1. Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.

Ordering Information

Order Numbers	022- EU,US,JPN :302 (PC encasement) :304 (ATEX/IECEx certified) :307 (US&Canada (C1D1/D2) certified) :502 (std. film) :507 (std. foam), :508 (premium foam) :701 (Standard Service Bureau) :702 (Custom Service Bureau)

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