



## Omni-ID® IQ 400

Omni-ID IQ 400 Ultrathin labels provide on metal tag functionality, within a low profile, easy to deploy label. The Omni-ID IQ 400 has been optimized for thermal barcode printers, enabling low cost and hassle-free RFID deployment. With its consistency and reliability, the IQ 400 redefines the standard for on metal tagging for applications demanding a very small narrow label.

## Building Intelligent Supply Chains

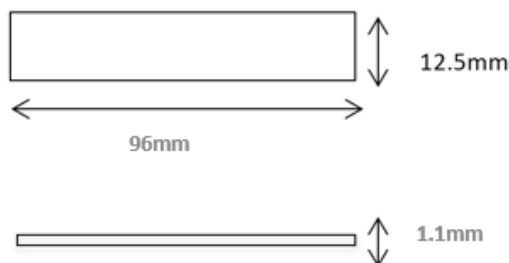
With innovative construction and thermal barcode printer compatibility, the Omni-ID IQ 400 label is ideal for hassle free deployment of RFID applications such as:

- ▶ IT and Office asset tracking
- ▶ Hospital and medical equipment
- ▶ Weapons, pipes, road signs
- ▶ Tools and kitchen assets

### Physical Specifications

Material	White synthetic label
Size (mm) <sup>1</sup>	96.0 x 12.5 x 1.1 with ground plane 96.0 x 12.5 x 1.0 without ground plane
Size (in) <sup>1</sup>	3.78 x 0.49 x 0.04 with ground plane 3.78 x 0.49 x 0.04 without ground plane
Weight (g)	0.30

<sup>1</sup>Product dimensions shown above are the maximum. Batch to batch variation could be within 5%. Unspliced sections will be within 0.2mm tolerance.  
Please see the [IQ On Metal Labels User Guide](#) for further details.



Dimensions stated in mm  
Supply format = 500 labels per roll

### RF Specifications

Protocol	EPC Class 1 Gen2v2
Frequency Range (MHz)	866-868 (EU) 902-928 (US)
Material Compatibility	Optimized for all materials
Standard Label with ground plane	Suitable for bare aluminum
Custom Label without ground plane	

### IC Types

Read Range with ground plane	Impinj Monza R6 (standard)	Impinj Monza 4QT (custom option)
Fixed Reader <sup>1</sup>	Up to 4.2	Up to 3.5
Handheld Reader <sup>1</sup>	Up to 2.4	Up to 2.4
Memory <sup>2,3</sup>	EPC - 96 bits User - 0 bits Unique TID - 48 bits	EPC - 128 bits User - 512 bits Unique TID - 48 bits

<sup>1</sup>Quoted performance achieved using standard testing methodology on Aluminium test plates. Read range is dependent on multiple factors such as; RFID reader transmit power and receiver sensitivity, asset material and environment. Please see the Omni-ID On Metal User Guide for more detail.

<sup>2</sup>EPC and User memory are reprogrammable. UTID is locked at point of manufacture by IC manufacturer.

<sup>3</sup>Monza R6 cannot be permalocked using current commercially available hardware & software.

## Related Products and Services

- **Omni-ID Prox NG** – Market leading, small form factor tag for mixed plastic and metal IT asset environments in global enterprises.
- **Omni-ID IQ 600** – Ultrathin label providing on metal tag functionality supplied as a roll with hassle free printing.
- **Omni-ID IQ 800P** – Large premium label for plastic assets.
- **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<sup>1</sup> -20 to +85°C

Max Temperature Exposure<sup>1</sup> -20 to +85°C

Application Temperature<sup>1</sup> +18 to +35°C

IP Rating IP68

Attachment Self-adhesive suitable for curved surfaces to a minimum radius of 58mm

Certifications RoHS approved  
CE approved

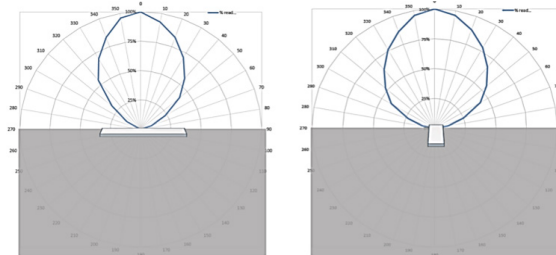
Printer Validation<sup>2,3</sup> Sato

1. Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.
2. Printer validation for Standard Version - Sato CL4NX.
3. See Omni-ID Sato NXSeries Printer Guide for details on calibrating and operation.

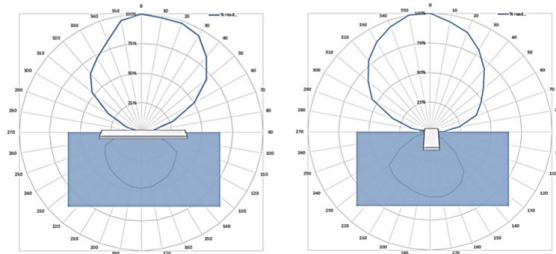
See the **IQ On Metal Labels User Guide** for details on available IC & Ground Plane product options.

## Radiation Patterns

On Metal



On Liquid



## Ordering Information

Order Numbers	141 – EU, US with Monza R6 142 – EU, US with Monza 4QT
Options:	:303 Customization - 4 color static print :315 Overlamination :329 Without ground plane :701 (Standard Service Bureau)

Supply Format 500 labels per roll

Minimum Order Quantity	R6	M4QT
Standard label	1,000 labels	10,000 labels
Service bureau	1,000 labels	10,000 labels
Customization	10,000 labels	10,000 labels
Overlamination	10,000 labels	10,000 labels



Omni-ID office locations: **US | UK | China | India | Germany**  
For product or technology inquiries email: [sales@omni-id.com](mailto:sales@omni-id.com)