



For access control applications involving people, Metalcraft offers a variety of different products. Every one of these products feature different RFID technology options - including NFC (near-field communications) to facilitate contactless payments. Each product is also digitally printed to showcase graphics and company logos.

Metalcraft's RFID Race Timing Tag is a low profile RFID tag that easily adheres to race bibs and has great performance and sensitivity to track runners' splits and times throughout the race. Each RFID label is customizable with your text and logo.

Material and Design Specifications

- Overall dimensions: 4" x 1.25" (101.6 x 31.75 mm)
- Other sizes are available - Pre-printed tag thickness is .0151 (0.39 mm). Onsite printable tag thickness is .0122 (0.31 mm).
- 0.0006" (0.015 mm) pressure-sensitive adhesive
- Durable, permanent materials - polypropylene
- Optional linear and 2D symbologies available

Technical Specifications

- **RF protocol** EPC Global Gen 2 v2 ISO 18000-6C
- **Frequency** 840-960 MHz (Global)
- **IC type:** Various
- **Chip memory:** Various
- **Read range:** Up to 28 ft.

Ribbon Recommendations

- DNP TRX-50 Wax/Resin Ribbon
- DNP V300 Full Resin Ribbon
- TR4070 Full Resin Ribbon

RFID Race Timing Tags

RFID FOR PEOPLE

Key Features

- No foam standoff needed
- Low profile
- High-performance adhesive
- Customizable
- Thermal-transfer receptive material can be printed on-site
- NXP UCODE 8 self-tuning chip
- EPC Class 1 Gen 2, ISO 18000-6C
- IP68 Certified

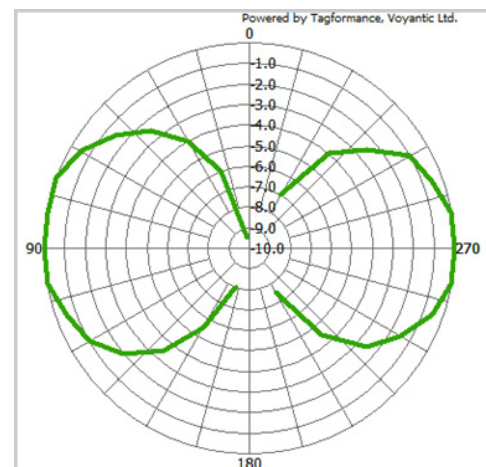
Applications

- Access Control
- Event Management
- Race

Environmental Specifications

- Minimum Application Temperature: -20 °F (-29 °C)
- Operating Temperature Range: -40 °F to +185 °F (-40 to +85 °C)
- UV Resistance: Indoor/Outdoor for up to 1 year
- Chemical Resistance: Survives continuous immersion in fresh water and salt water for up to 24 hours. Survives common household cleaners, strong acids and bases and mild solvents for up to 2 hours.

Radiation Pattern



*Standard inlay pattern, will vary with custom inlay options.

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Test Results

These tests were conducted for a limited period in strict laboratory conditions. To achieve maximum satisfaction, we highly recommend any customer considering use of this product test the labels in the environment in which they will be used.

Chemical Resistance Summary: This table contains observations of the conditions that developed during chemical exposure											
Product (Time)	Water	Salt Water (5% NaCl)	Bathroom Cleaner	Glass Cleaner	Isopropanol 99%	Brake Fluid	Acetone	Diesel	Nitric Acid	Hydrochloric Acid	Sodium Hydroxide
W52 Interior Mount (48 Hours)	NE	NE	NE	NE	AO	NE	AL, AO TD	AO	NE	NE	NE
Note: All tags are readable with RAY12 Mobile Reader post exposure.											
Key: NE - No Effect, AO - Adhesive Ooze, AL - Loss of Adhesion to Glass Panel, TD - Tag Delaminated											

Max Temperature Exposure
RFID Race Timing Tag
300 °F (149 °C)

Industry Compliance

