Cattle Management Ear Tag

RAIN® RFID management ear tag for cattle

The RAIN® RFID management ear tag by HID Global, extends the traditional low-frequency Animal Identification schemes with a new long-range UHF option.

The reusable HID management tag is a standard product designed to work with any closure mechanism from Animal ID system integrators.

The flexible and tough Thermoplastics Polyurethane (TPU) housing is highly waterproof (IP68 + IP 69K), resists aggressive liquids, bending and torsion, strong impact (IK08) and weather conditions (UV light). It's large front surface supports laser engraving of bar codes, QR codes and text for additional optical identification to comply with legislations.

With its fully automated manufacturing processes, own Asian certified production facility and in-house Swiss design services HID Global can support custom designs, encoding services and mass-production as needed.

Such a tag enables livestock like cattle to be automatically counted and identified when walking through a reader gate or entering a feeding station. It allows identifying and counting animals in groups from a distance, reducing stress to the animals. Read/write capabilities allow storing additional information like vaccination or movement.

Its construction was optimized by HID experts to optimally match the use case and allows a reading distance of up to 6.5m (21 ft) as well as its durability, which are among the highest in the market. The broadband design supports worldwide operation and reliable reading in any typical circumstances.

KEY BENEFITS

- Versatile – Flexible, laser engravable flag works with any standard round button tag set
- Highly reliable – Water, impact and UV resistant durable housing
- Superior performance – Excellent reading distance around the world
- Patent pending design

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KEY TECHNOLOGY HIGHLIGHTS:

- Flexible base to be combined with any locking mechanism
  - Patent pending design for performance
  - Highly robust TPU material
  - IP69K and IP68 water resistant
  - Broadband MONZA 5 chip for worldwide use
  - Laser engravable and UV resistant

TYPICAL APPLICATION AREAS:

- Livestock
  - Cattle
  - Bison
  - Buffalo

	Ear Tag
Base Model Number	7A7901
ELECTRONIC	
Operating Frequency	860-960 MHz (Worldwide)
Chip Type	Monza R5
Memory	32 bit user memory + 128 bit EPC + 96 bit TID
Reading Distance	Up to 21 ft (6.5 m)
PHYSICAL	
Dimensions	4.6 × 3 × 0.07 in (116 × 77 × 1.7 mm)
Diameter hole on ring	Ø 0.35 in (Ø 9 mm)
Housing Material	Thermoplastics Polyurethane (TPU)
Color	Yellow
Weight	0.53 oz (15.2 g)
CHEMICAL AND MECHANICAL	
Water	IP69K, IP68, 68° F (20° C), 3.3 ft (2 m) x 24 h
Withstands Exposure to	Mineral oil, Petroleum, Salt mist, UV light
Impact	IEC 62262-IK08
Axial Force	500 N, 10 sec
THERMAL	
Storage	-40° to +185° F (- 40°C to + 85°C), 1000 h
Operating Temperature	-40° to +185° F (- 40°C to + 85°C)
Shock/Fatigue	-40° to +185° F (-40°C to +85°C), 100 x 5 min with 30 sec transition
OTHER	
Standards	EPC Gen2, ISO/IEC 18000-6C
Box Size	200 pcs
Options	Laser engraving, encoding. Custom shapes and chip types available
Warranty	2 Years

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