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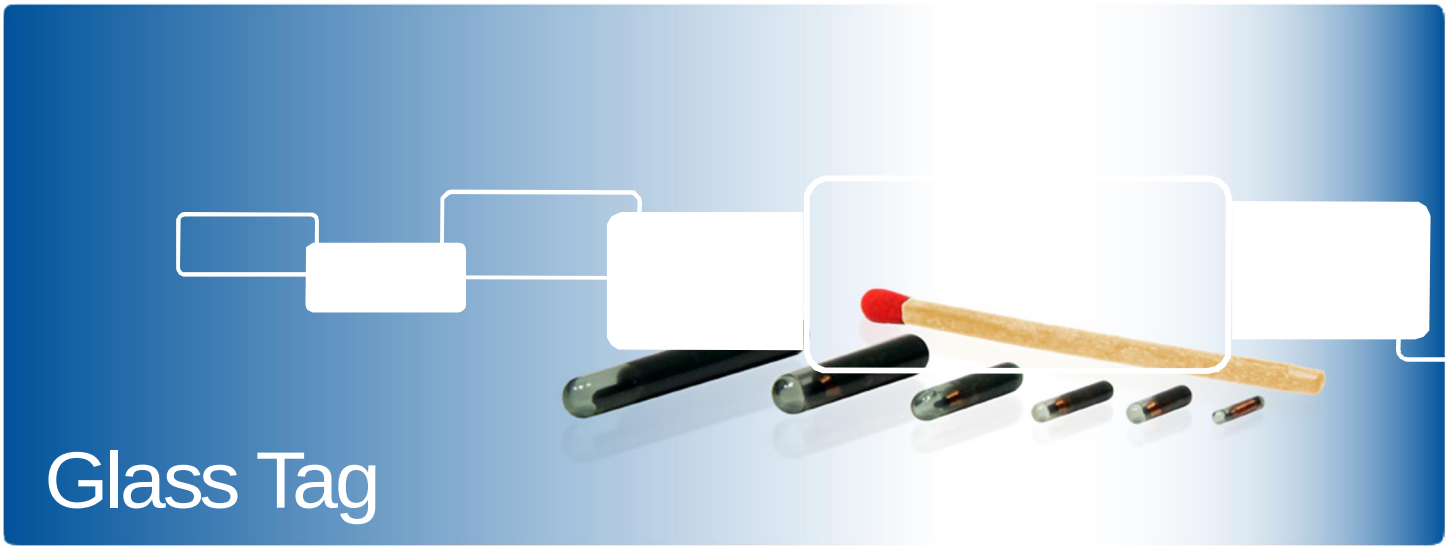
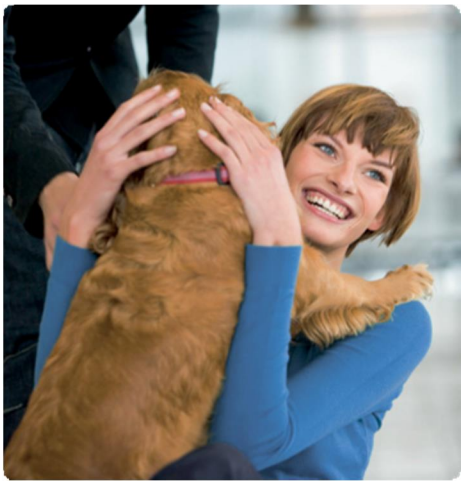
ANIMAL IDENTIFICATION

HID



Glass Tag



SAFE, RELIABLE, EFFECTIVE RFID TAGS FOR PETS, LIVESTOCK AND LAB ANIMALS

- **Unsurpassed quality** ï fully automated manufacturing and direct-bonding technology ensure tag reliability
- **Optimum operation** ï the highest out-of-box performance ratings in the industry, with no line-of-sight requirements
- **Practically limitless options** ï choose from a broad range of standard sizes and integrated chips, or customize to fit any application

Glass Tag contactless RFID transponders help manage and safeguard animals. In tag production, HID employs fully automated processes to ensure consistent quality and reliability. Patented direct-bonding technology enables more compact tag designs and optimized read ranges, delivering exceptional size to performance ratios.

Standard Glass Tag units are enclosed in biocompatible glass, making them harmless to animals. The optional parylene coating improves and accelerates tissue adhesion, preventing the movement of tags implanted subcutaneously.

Veterinary professionals trust HID quality transponders for implantation. Glass Tag units perform reliably over the long term, minimizing the potential for traumatic tag removal and replacement procedures. The variety of sizes available from HID ensures a tag to fit any animal: from fish and small mammals, to cats and dogs, to goats, sheep and horses.

Glass Tag devices help optimize livestock production and productivity, allowing individualized management, monitoring and feed control through each animalôs lifecycle.

Larger HID Glass Tag transponders are ideal for cattle, sheep and goats, and are compatible with a choice of minimally invasive tagging options, including:

- Housing each glass tube in a ceramic bolus for easy insertion through the gullet
- Embedding it in a custom housing, such as a one-piece ear tag, or bird ring
- Inserting it into the animal in an injectable format

For tracking of birds, small Glass Tag RFID tags are embeddable in bird rings or bands.

HID Glass Tag Mini and Ultra transponders deliver greater read range than any low frequency tags of comparable size. Improved read range reduces animal stress by increasing the distances between animals, reader equipment, and operators. In kind, these tags reduce stress on system operators as well.

TECHNOLOGY HIGHLIGHTS:

- ISO 11784 and 11785 compliant
- Multiple IC options, including EM4305, Hitag S, Hitag µ, FDX, HDX, Unique
- Bioglass capsules with parylene coating ensure optimal biocompatibility
- Unlimited resistance to water and chemical absorption
- Memory storage up to 2048 bits
- Custom sizes and programming available

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Glass Tag

SPECIFICATIONS

	Glass Tag					
Operating Frequency	125 kHz		134.2 kHz			
Chip Type	Hitag S	Unique	Hitag µ	EM4305		
Memory	256 bit EEPROM	64 bit read-only	128 bit EEPROM	512 bit EEPROM		
Reading Distance	Dependent upon reader, environment and application					
PHYSICAL						
Dimensions	Ø 0.12 x 0.51 in (Ø 3.15 x 13.3 mm)	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)	Ø 0.05 x 0.31 in (Ø 1.4 x 8 mm)	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)	Ø 0.16 x 0.87 in (Ø 4 x 21.7 mm)	Ø 0.16 × 1.34 in (Ø 4 x 34.4 mm)
Tagging Method	External housing	Subcutaneous			External housing	
Housing Material	Bioglass					
CHEMICAL AND MECHANICAL						
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h					
Withstands Exposure To	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, salt water					
Environmental Test Conditions	68° F (20° C), 100 h					
Vibration	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]					
Shock	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]					
THERMAL						
Storage	-40° to +194° F (-40° to +90° C), 1000 h					
Operating	-13 °to +185° F (-25° to +85° C)					
Peak	248° F (120° C), 100 h; '284° F (140° C), 10 h					
OTHER						
Standards	ISO 11784, ISO 11785		ISO 11784, ISO 11785, ISO 14223	ISO 11784, ISO 11785		
Options	Parylene coating (when ordering coating, increase base model number by one), custom programming					
Warranty	2 Years					

HID can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials.

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ANIMAL IDENTIFICATION:

- **Companion animals**
  - Cats
  - Dogs
  - Horses
- **Livestock**
  - Cattle
  - Goats
  - Sheep
- **Laboratory and exotic animals**
  - Ferrets
  - Fish
  - Mice and rats
  - Pigeons

SPECIFICATIONS

	Glass Tag							
	Ultra		HDX	Hitag S				
	9 mm	12.5 mm	22.5 mm	12 mm		15 mm	22 mm	34 mm
Base Model Number	628230	684280	6B7250	623230	624201	623242	623250	623260
ELECTRONIC								
Operating Frequency	134.2 kHz							
Chip Type	EM4305		HDX	Hitag S				
Memory	512 bit EEPROM		128 bit read-only	256 bit EEPROM	2048 bit EEPROM	256 bit EEPROM		
Reading Distance	Up to 35% greater than standard tag of same size		Dependent upon reader, environment and application					
PHYSICAL								
Dimensions	Ø 0.08 x 0.35 in (Ø 2.12 x 9 mm)	Ø 0.08 x 0.49 in (Ø 2.12 x 12.5 mm)	Ø 0.15 x 0.88 in (Ø 3.85 x 22.5 mm)	Ø 0.08 x 0.47 in (Ø 2.12 x 12 mm)		Ø 0.12 x 0.59 in (Ø 3.15 x 15.5 mm)	Ø 0.16 x 0.87 in (Ø 4 x 21.7 mm)	Ø 0.16 x 1.34 in (Ø 4 x 34.4 mm)
Tagging Method	Subcutaneous		External housing	Subcutaneous			External housing	
Housing Material	Bioglass							
CHEMICAL AND MECHANICAL								
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h							
Withstands Exposure To	Alcohol, ammonium chloride 25%, fuel B, HCL 10%, salt water							
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OTHER								
Standards	ISO 11784, ISO 11785							
Options	Parylene coating (when ordering coating, increase base model number by one), custom programming							
Warranty	2 Years							

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For more information, visit: www.rfidcanada.com
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