HID®

Keg Tag

UHF RFID TRANSPONDERS FOR TAGGING CURVED METAL RETURNABLE TRANSPORT ITEMS

- **Durable** – built to withstand the rigors of reusable container processing
- **Enhanced efficiency** – enable simultaneous reading of multiple containers, decreasing processing time while increasing accuracy
- **Optimized** – specifically designed for tagging metal kegs and cylinders

Keg Tag transponders enhance the inventory tracking and lifecycle management of cylindrical returnable transport items (RTI), such as beverage kegs, chemical drums and gas cylinders. Radio frequency identification (RFID) technology from HID Global can help improve operational efficiency, while ensuring safe container transport and return. Anti-collision technology speeds processing, allowing readers to communicate with multiple tags in a single pass. At the same time, information stored in each RFID tag empowers more accurate, efficient asset management.

Keg Tag transponders mount via welding on steel kegs. The RFID tags are built to withstand rigorous washing and sterilization processes, including the use of caustic soda. Durable, double injected, full plastic housings guard the enclosed electronics against exposure to liquids and harsh chemicals, as well as fluctuations in temperature.

Ultrahigh frequency (RAIN® UHF) transponders enable real-time inventory, while slashing processing time. HID UHF Keg Tag devices allow accurate accounting of entire pallets – even full truckloads – of containers in seconds. The unique design is optimized to facilitate reliable inventory tracking amidst a dense field of objects, even when items are filled with liquids. Each container can be counted and identified as a truck pulls away from a distribution center, and again when the truck arrives at its destination. This enables full visibility not only in the warehouse, but also during transportation and on customer sites.

The durable housings of each HID UHF keg transponder are slightly curved, for optimal fit on round surfaces.

TECHNOLOGY HIGHLIGHTS:

- Anti-collision enables simultaneous reading of multiple tags
- Highly durable mount via welding on steel
- Designed to withstand harsh washing cycles, including caustic soda
- Ultrahigh frequency (RAIN® UHF)
  - Broadband for international use 860 to 960 MHz (EU, US, JP)
  - Read range up to 30 ft (9 m)
  - Up to 512 bit EEPROM
- Curved for optimal fit to kegs and cylinders (flat versions also available)

APPLICATION AREAS:

- Beer kegs
- Chemical drums
- Metal gas cylinders

SPECIFICATIONS

	Keg Tag (UHF)	
Base Model Number	6A7982-102	6F1988-102
ELECTRONIC		
Operating Frequency	865-956 MHz (Worldwide)	
Chip Type	Monza 4QT	Monza R6
Memory	128 bit EPC + 96 bit TID + 512 bit user memory	96 bit EPC + 48 bit TID
Anti-Collision	Yes	
UHF Reading Distance (2 W reader ERP, free space)	Up to 26.2 ft (8 m)	Up to 29.5 (9 m)
PHYSICAL		
Dimensions	3.5 x 1.4 x 0.6 in (88 x 37 x 15 mm)	2.04 x 1.02 x 0.83 in (52 x 26.5 x 21.4 mm)
Curve Radius	450 mm (larger kegs)	126 / 163 mm (smaller kegs)
Mounting Method	Weld	
Affixes To	Steel Kegs	
Housing Material	PA (Polyamide)	
Weight	0.70 oz (20 g)	
Color	Grey (white optional)	
CHEMICAL AND MECHANICAL RESISTANCE		
Water	IP68, 6.6 ft (2 m) x 24 h	
Withstands Exposure To	Mineral oil, petroleum, salt mist, vegetable oil, caustic soda 5%; up to 80% humidity at 158° F (70° C)	
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]	
Impact	IEC 62262-IK08	IEC 62262-IK07
Axial/Radial Force	1000 N, 10 sec	
THERMAL		
Storage	-40° to +185° F (-40° to +85° C)	
Operating Temperature	-40° to +185° F (-40° to +85° C)	
Shock/Fatigue	-40° to +185° F (-40° to +85° C), 100 x 5 min with 30 sec transition	
OTHER		
Standards	UHF EPC Class 1 Gen 2	
Options	Laser engraving, white housing	
Box Size	240 pcs.	400 pcs.
Warranty	2 Years	

hidglobal.com

North America: +1 512 776 9000
Toll Free: 1 800 237 7769
Europe, Middle East, Africa: +44 1440 714 850
Asia Pacific: +852 3160 9800
Latin America: +52 55 5081 1650

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