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.

RAIN® RFID (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.

RAIN® RFID / NFC combo tags extend the potential applications by combining the best of both worlds. Long-distance logistic applications in the warehouse, and simple user interaction via mobile phone at the consumer / recipient side.

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
- RAIN® RFID (UHF)
  - Broadband for international use 860 to 960 MHz (EU, US, JP)
  - Read range up to 32.8 ft (10 m)
  - Up to 2560 bits EEPROM
  - Optional combination with NFC
- Curved for optimal fit to kegs and cylinders (flat versions also available)

APPLICATION AREAS:
- Beer kegs
- Chemical drums
- Metal gas cylinders

For more information, contact tagsales@hidglobal.com

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SPECIFICATIONS

	Keg Tag (UHF)		
			Tag delivered by default without laser marking
Base Model Number	6A7982-102	6F1988-102	6K7982-102
ELECTRONIC			
Operating Frequency	865-956 MHz (Worldwide)		13.56 MHz + 860 to 960 MHz
Chip Type	Monza 4QT	Monza R6	Monza R6-P + ICODE SLIX2
Memory	128 bit EPC + 96 bit TID + 512 bit user memory	96 bit EPC + 48 bit TID	128 bit EPC + 96 bit TID + 2560 bits user memory
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)	Up to 32.8 ft (10 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)	3.5 x 1.4 x 0.6 in (88 x 37 x 15 mm)
Curve Radius	450 mm (larger kegs)	126 / 163 mm (smaller kegs)	450 mm (larger 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	IEC 62262-IK08
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.	240 pcs.
Warranty	2 Years		

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