SimplyFuel Solutions®

An E.J. Ward, Inc. Company

Secure authentication and access

HID Key FOB

User tracking for fuel control, gate access, and car wash

The versatile, long lasting HID Key FOB is ideally suited for a variety of Ward applications and environments. The FOB permits the encoding of a wide range of data and information with the memory structure and capacity to store multiple applications on a single credential. Its passive, no-battery design allows for an infinite number of reads.

Securely separated sectors, each protected by a set of two keys and programmable access conditions allow complex applications and provide for future expansion.

Data contained in the FOB is protected with encryption keys used in a mutual authentication process; no important data is shared until the FOB and reader have been authenticated to each other. The RF re-programmable FOB features the high quality and security benefits in HID 13.56 MHz credentials.

Manufactured with the highest quality, rugged, double-sealed construction, the FOB is built to withstand harsh usage and conditions.

KEY FEATURES

- **High Security** - MIFARE technology ensures mutual authentication, data encryption and unique 32-bit serial number.

- **Proven, Reliable Technology** - Offers extremely consistent read range. Use is unaffected by body shielding or variable environmental conditions, even when close to keys and coins.

- **Fast Processing and Communication** - Transaction times are less than 100 milliseconds for a typical secure ticketing transaction.

- **Multiple Memory Options** - Available in MIFARE 1K and 4K.

i See our Capabilities Brochure for our Solutions Overview.

Fuel access with FCT and FOB

Specifications

Description	MIFARE Key FOB
Dimensions	1.725 x 1.197 x 0.215 in (4.38 cm x 3.0 cm x 0.55 cm)
Weight	0.191 oz (5.4 g)
Typical Maximum	Read range* Up to 2 in (5 cm)
Operating Temperature	-40 to 158°F (-40 to 70°C)
Operating Humidity	5%-95% Non-condensing
Operating Frequency	13.56 MHz
RF Interface	ISO 14443 A, Parts 1-3
Transaction Time	< 100 ms
Baud Rate	106 kbps
Memory Type	EEPROM, 1Kbyte (8,192 bits) or 4 Kbytes (32,768 bits)
Multi-Application Memory	MIFARE 1K: Memory arranged in 16 64-byte Sectors
	MIFARE 4K: Memory arranged in 40 Sectors: 32 sectors of 64 bytes, 8 sectors of 256 bytes
Write Endurance	100,000 cycles min
Data Retention	10 years min
Material and Finish	Molded polycarbonate, matte blue
Card Marking	Laser engraving - optional
Custom Graphics	Optional
Slot Punch	Key ring hole
Programming	Factory or field programmable
Part Number	Model 1434 MIFARE 1K KeyFOB
	Model 1444 MIFARE 4K KeyFOB
Warranty	Ward's standard Warranty Policy applies

* Dependent on local installation conditions.

ℹ️ Specifications subject to change without notice, verify with manufacturer.

Sourcewell
Awarded Contract

Contact

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