

FEATURES

- **Dual-frequency**
- **Harsh-environment durability**
- **Factory-programmed, 60-bit storage**
- **Wiegand programming available**
- **Powered by lithium battery**
- **10-year average service life**
- **Reliable, long-range performance**

AT5114 Transportation Tag



The AT5114 Transportation Tag is a dual-frequency, battery-powered field disturbance device used in applications requiring long-range operation and exposure to harsh environmental conditions. The tag is ideal for mounting on vehicle chassis, intermodal containers, or in any environmental conditions requiring a durable, weathertight tag.

The tag is factory-programmed, as specified by the customer, and stores up to 10 alphanumeric characters of data (60 bits). The factory can program the tag to emulate Wiegand access control cards using 26- to 54-bit Wiegand formats.

A small lithium battery cell energizes the AT5114 Transportation Tag. The battery is compliant with U.S. DOT 49 CFR § 173.185(i) and ICAO (international) regulations for unrestricted shipment. Consult local agencies for regulations if the tag is to be shipped outside the United States. Under continuous use, the average useful tag life is 10 years. The number of tag reads and RF fields from other sources do not affect battery life. The AT5114 Transportation Tag's integral battery power improves its responsiveness, permitting reliable performance at extended range.

The AT5114 Transportation Tag encodes the signal received from an Amtech®-brand reader system with an identification number or a data message. The encoded signal reflects back (backscatters) to the Amtech reader system. TransCore's Amtech-brand AI1601, AI1603, AI1604, AI1605, AI1611, and AI1620 readers can read the AT5114 Transportation Tag.

AT5114 Transportation Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz
2400 to 2450 MHz

Working Range

With AR2200 RF Module/AI1620 Reader:
5 to 35 ft (1.5 to 11 m)

With AR2602 RF Module/AI1611 Reader:
5 to 10 ft (1.5 to 3 m)

Polarization

Parallel with longer side

SOFTWARE FEATURES

Data Capacity

10 alphanumeric characters (60 data bits)

LIFE EXPECTANCY

Average Service Life

10 years

POWER REQUIREMENTS

Power Source

Lithium battery

PHYSICAL ATTRIBUTES

Dimensions

Size: 9.3 x 2.38 x 0.69 in
(23.6 x 6.0 x 1.75 cm)

Weight: 6 oz (170 g)

Case Material

Weatherproof, polycarbonate, UV-stabilized case that is sealed after programming

Mounting Surface

Metallic

If mounting surface is nonmetallic or irregular, the AT5114 Transportation Tag must be mounted to a metal backplate attached to the surface of the vehicle or object to be tagged.

For applications where the integrity of the mounting surface cannot be compromised, the AT5114 Transportation Tag can be mounted on a flat smooth surface using double-sided tape.

Mounting Method

The AT5114 Transportation Tag can be mounted directly to any flat smooth metal surface using bolts, screws, or blind rivets.

ENVIRONMENTAL

Operating Temperature

-40°F to +185°F (-40°C to +85°C)

OPTIONS

Color

The AT5114 Transportation Tag is available in a gray or olive-drab case.

Custom Colors

The AT5114 Transportation Tag can be custom-ordered in a range of colors. Special conditions may apply. Contact your TransCore representative for information.

ACCESSORIES

Mounting Tape

Double-sided polyurethane foam adhesive tape is available in 36-yard roll or tag-length segments.

DOCUMENTATION

Intermodal Tag Mounting Guide



For product information call: 1.800.923.4824 or 214.461.4031 (outside the U.S.) Fax 214.461.6478

www.transcore.com

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