

FEATURES

- **Factory-programmed, 60-bit storage**
- **Wiegand programming available**
- **Powered by lithium battery**
- **10-year average service life**

AT5147 Access Control/ License Plate Tag



The AT5147 Access Control/License Plate Tag is a battery-powered radio frequency (RF) field disturbance device specifically used in applications with TransCore's SmartPass® integrated reader systems. TransCore recommends this tag when metallic-coated windshields prevent installation of interior-mounted tags.

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 AT5147 Access Control/License Plate Tag. The battery is compliant with U.S. DOT 49 CFR § 173.185(i) regulations for unrestricted shipment. Consult local agencies for regulations if the tag is to be shipped outside the United States. With continuous use, the average tag life is 10 years. The number of tag reads and external RF fields do not affect battery life.

The AT5147 Access Control/License Plate Tag encodes the signal received from a SmartPass reader system with an identification number or a data message. The encoded signal reflects back (backscatters) to the SmartPass reader. TransCore's Amtech®-brand AI1600-series readers can read the AT5147 Access Control/License Plate Tag.

AT5147 Access Control/License Plate Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz

Typical Working Range

With AI1620 Reader:
5 to 35 ft (1.5 to 11 m)

Range depends upon system parameters.

Polarization

Parallel with longer side

SOFTWARE FEATURES

Data Capacity

Up to 10 six-bit alphanumeric characters
(60 available bits) or Wiegand 26- to 54-bit
formats

POWER REQUIREMENTS

Power Source

Lithium battery with 10-year average life

PHYSICAL

Dimensions

Size: 8.5 x 1.5 x 0.85 in
(21.6 x 3.8 x 2.2 cm)

Weight: 3.8 oz (107.7 g)

Case Material

Weatherproof, polycarbonate alloy, UV-
stabilized

Mounting Surface

Metallic or nonmetallic

Mounting Method

Typically mounted with existing license
plate bracket and hardware

Tape Mounting: For applications where the
integrity of the mounting surface cannot be
compromised, the AT5147 Access Control/
License Plate Tag can be mounted on a
smooth flat surface using double-sided tape.

ENVIRONMENTAL

Operating Air Temperature

-40°F to +185°F (-40°C to +85°C)



For product information call: 1.800.923.4824 or 972.733.6600 (outside the U.S.) Fax 972.733.6486

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