

FEATURES

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

AT5105 Access Control Tag



The AT5105 Access Control Tag is a battery-powered radio frequency (RF) field disturbance device used only in applications with TransCore's SmartPass® integrated reader systems. The dual-frequency tag is factory-programmed, as specified by the customer, and stores up to 10 six-bit alphanumeric characters of data (60 bits). The tag can be factory-programmed to emulate Wiegand access control cards using 26- to 54-bit Wiegand formats.

A small lithium battery cell energizes the AT5105 Access Control Tag. The battery is compliant with U.S. DOT 49 CFR § 173.206(f) 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 five years. The number of tag reads and external RF fields do not affect battery life.

The AT5105 Access Control Tag encodes the signal received from a SmartPass reader with an identification number or a data message. The encoded signal reflects back (backscatters) to the SmartPass reader. The Amtech®-brand AI1600-series readers can read the AT5105 Access Control Tag.

AT5105 Access Control Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz
2400 to 2500 MHz

Typical Working Range

With AI1611 Reader:
5 to 10 ft (1.5 to 3 m)

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 5-year average life

PHYSICAL

Dimensions

Size: 3.6 x 2.3 x 0.27 in (9.2 x 5.9 x 0.69 cm)
Weight: 1.8 oz (50 g)

Case Material

Dustproof, polycarbonate alloy

Mounting Surface

Nonmetallic surface

Mounting Method

Double-sided tape or adhesive-backed
hook-and-loop material attached to the tag
and to the inside surface of the vehicle
windshield

Mounting Location

Vehicle interior

ENVIRONMENTAL

Operating Temperature

-40°F to +185°F (-40°C to +85°C)

OPTIONS

Hook and Loop

For interior installation, the user can specify
factory-applied hook-and-loop material.

Double-sided Tape

For permanent interior installation, the user
can specify factory-applied double-sided
tape.

Tag Case Color

The standard color is black. Consult the
price list for other color options.

DOCUMENTATION

*Technical Notes: Mounting TollTags® with
Hook and Loop Attachments*



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

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