

FEATURES

- **Factory-programmed, 60-bit storage**
- **Wiegand programming available**
- **Beam-powered for unlimited service life**

AT5102 Access Control Tag



The AT5102 Access Control Tag is a radio frequency (RF) field disturbance device used only in applications with TransCore's SmartPass® integrated reader systems. It 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.

The AT5102 Access Control Tag has an unlimited service life because a small portion of the RF signal continually energizes the tag's circuitry. This feature limits the tag's range, which reduces competition with other nearby tags and enhances system discretion within a 5- to 10-foot (1.5- to 3- meter) diameter reading area.

The AT5102 Access Control 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 AT5102 Access Control Tag.

AT5102 Access Control Tag

COMMUNICATIONS

Frequency Range

902 to 928 MHz

Typical Working Range

5 to 10 ft (1.5 to 3 m)

Range depends upon system parameters.

Polarization

Parallel with longer side

SOFTWARE FEATURES

Data Capacity

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

POWER REQUIREMENTS

Power Source

Beam powered

LIFE EXPECTANCY

Service Life

Unlimited

PHYSICAL

Dimensions

3.6 x 2.3 x .27 in. (9.2 x 5.9 x .69 cm)

Weight

1.4 oz (40 g)

Case Material

Dustproof, polycarbonate alloy

Mounting Surface

Nonmetallic

Mounting Method

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

Mounting Location

Vehicle interior

ENVIRONMENTAL

Operating Air 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

Standard color is beige. 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

www.transcore.com

© 2004 TC IP, Ltd. All rights reserved. TRANSCORE, AMTECH, and SMARTPASS are registered trademarks of TC IP, Ltd., and are used under license. All other trademarks listed are the property of their respective owners. Contents subject to change. Printed in the U.S.A. Products covered by this document are protected by one or more of the following U.S. patents 4,739,328; 4,786,907; 4,816,839; 4,853,705; and foreign equivalent patents. Other patents pending.

411098-008 10/04