

SmartPass® 4 Reader

Features

- ▶ Ideal for parking, security access, electronic vehicle registration, and traffic management
- ▶ Fixed mount, integrated package with waterproof enclosure
- ▶ Reads ATA tags
- ▶ 915 MHz RF band operation in North America
- ▶ Half-frame, full-frame (ATA), and Wiegand capability
- NEW** ▶ Internal and external antenna models
- ▶ Real-time clock
- ▶ Tag read buffering
- NEW** ▶ Programmable RF output power
- ▶ Quick, simple installation



TransCore's SmartPass® 4 is a series of fully integrated, self-contained 915 MHz wireless radio frequency identification (RFID) readers that are specifically targeted at high performance applications in parking, security access, electronic vehicle registration (EVR) and traffic management. Each SmartPass 4 reader includes a radio frequency (RF) module, digital signal processor (DSP), power supply, antenna (unless external antenna option is selected), I/O interfaces, and RS-232 or RS-422 serial communications interface.

The SmartPass 4 is capable of reading the American Trucking Associations (ATA) protocol.

Additionally, for compatibility with existing security systems, SmartPass 4 can read half-frame and full-frame ATA tags and Wiegand formatted tags and identification cards.

All SmartPass 4 readers provide unparalleled flexibility by offering a real-time clock; expanded tag read buffering; programmable RF power; 250 KHz programmable frequency steps; system integrity checking; and programmable group select.

SmartPass 4 readers are quickly and easily installed, tested, and maintained by TransCore-trained authorized personnel. The SmartPass 4's command set is compatible with TransCore's SmartPass and Encompass® 2 readers.

SmartPass® 4 Reader

RF CHARACTERISTICS

Frequency Range

902 to 928 MHz capable

911.75 to 919.75 MHz FCC-authorized in United States

Internal Antenna Gain

9.5 dBi

RF Control

By sense input or host command

Polarization

Linear, horizontal

Range

Read performance varies depending on tag and reader configuration and environment. Typical read range should be 12 to 17 ft (3.7 to 5.2 m).

Consult the *Encompass® 4 Reader System Guide* for tag and reader selection.

I/O CONTROL

Input: two independent dry contact closures for sense circuits

Output: two independent Form-C contacts

RS-232 with Wiegand or RS-422 with Wiegand-compatible host interface

POWER REQUIREMENTS

Input Power

16 to 20V AC, 47 to 63 Hz, or 16 to 28V DC

RF Output Power

2 W maximum to 200 mW minimum, selectable in 1dB steps

LICENSING

Equipment License

The user is required to obtain a Part 90 site license from the FCC to operate the unit in the United States. Access the FCC Web site at www.wireless.fcc.gov/uls for more information.

FCC ID: F1H05531

Industry Canada ID: 1584A-05531

Users in all countries should check with the appropriate local authorities for licensing requirements.

COMPLIANCE

RF Interference

Units have been tested and are verified to Part 15 of the FCC rules for a Class A digital device.

Safety

SmartPass 4 readers comply with the requirements of Underwriters Laboratories UL-1950, Standard for Safety of Information Technology Equipment.

PHYSICAL

Dimensions

Size: 15.5 x 15.5 x 3.25 in. (39.4 x 39.4 cm)

Weight: 9.5 lb (4.3 kg)

Mounting Location

Pole or wall mount

Indoor or outdoor

Enclosure

The system is environmentally sealed in a tamper-proof, polycarbonate housing.

ENVIRONMENTAL

Operating Air Temperature

-40°F to +131°F (-40°C to +55°C)

Humidity

100% condensing

Vibration

0.5 G_{rms}, 10 to 500 Hz

OPTIONS

Cable Accessory Kits

Cable Accessory Kits allow flexibility in installing the SmartPass 4. Include the part number when ordering.

Part number 58-1620-001: connector with 5 ft (1.5 m) cable

Part number 58-1620-002: connector with 20 ft (6.1 m) cable

Wall Mount Bracket

Allows adjustment in all planes when used to install the SmartPass 4 on a flat surface. Include the part number 54-1620-001 when ordering.

Transformer

A Class C transformer (part number 76-1620-005) is available to allow 110V AC to 18V AC conversion. Include the part number when ordering.

Training

Installation, operation, and maintenance training for TransCore authorized dealers is available through TransCore. For details, contact TransCore.

DOCUMENTATION

Encompass® 4 Reader System Guide

For more information:

Call **1.800.923.4824 • 214.461.4031** or fax **214.461.6478**

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