

Encompass® 4-S

RFID Reader

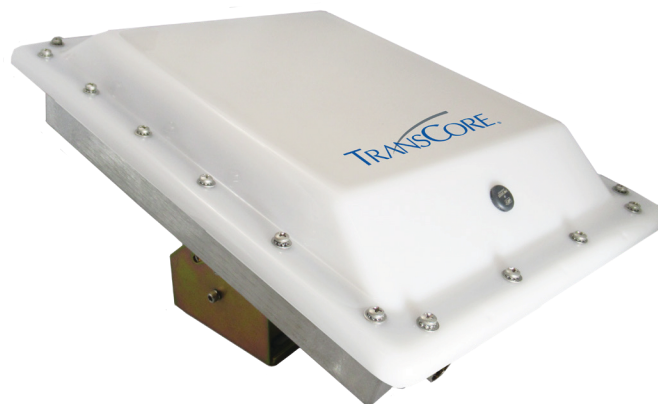
TransCore's Encompass® 4-S is a fully integrated wireless radio frequency identification (RFID) reader designed for use in parking, security access, fleet, and trucking applications. The Encompass 4-S is a compact version of TransCore's Encompass 4, for installations that require a smaller profile.

The Encompass 4-S is capable of reading the following protocols and formats:

- ▶ TransCore Super eGo® (SeGo)
- ▶ eGo (ISO 18000-6B)
- ▶ ATA/AAR/ISO 10374
- ▶ Interagency Group (IAG-TDM)
- ▶ Wiegand
- ▶ Serial (RS-232 or RS-422)

The Encompass 4-S reader's built-in Wiegand translator converts ATA, eGo, SeGo, and IAG-TDM tag protocols into Wiegand data for compatibility with existing security systems. The Encompass 4-S reader also provides expanded tag read buffering, programmable RF power and frequency, system integrity checking, and programmable group select.

The Encompass 4-S reader can be easily installed, tested, and maintained by authorized personnel. The command set is compatible with TransCore's SmartPass®, Encompass 2, and Encompass 4 readers.



Features

- ▶ Multiprotocol
- ▶ Built-in Wiegand translator
- ▶ Fixed mount, integrated package with water resistant enclosure

Applications

- ▶ Parking
- ▶ Security access
- ▶ Fleet
- ▶ Trucking

Encompass[®] 4-S Reader

COMMUNICATIONS

Frequency Range

865 to 870 MHz capable
902 to 928 MHz capable
911.75 to 919.75 MHz FCC-authorized in US
902.25-903.75 and 910.00-921.50 CW (ATA only)**

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

HARDWARE FEATURES

I/O controls

Input: two independent dry contact closures for sense circuits

Output: two independent Form-C contacts

Communication Port

RS-232 with Wiegand
RS-422

POWER REQUIREMENTS

Input Power

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

RF Output Power

Adjustable from 33 dBm (2W) to 18 dBm (63mW)

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 website at www.wireless.fcc.gov/uls for more information.*

FCC ID: FIHE4SPT90V45

Industry Canada ID: 1584A-E4SPT90V45

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

Complies with the requirements of UL-1950, Standard for Safety of Information Technology Equipment

PHYSICAL

Dimensions

Size: 13.3 x 9.3 x 4.0 in (101.6 x 33.8 x 23.6 cm)

Weight: 8.9e lbs (3.9 kg)

Mounting Location

Pole or wall mount
Indoor or outdoor

Enclosure

Polycarbonate/aluminum housing

ENVIRONMENTAL

Humidity

100% condensing

Vibration

1 G_{rms} 10 to 500 Hz

Operating Temperature

-40°F to 131°F (-40°C to 55°C)

OPTIONS

Cable Accessory Kits

Cable Accessory Kits allow flexibility in installing the Encompass 4-S.

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

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

58-1620-006: connector with 35 ft (10.6m) cable

Wall Mount Bracket

Allows adjustment in all planes when used to install the Encompass 4-S on a flat surface

54-1620-001: Mounting Kit

Transformer

Class C transformer available to allow 110V AC to 18V AC conversion

76-1620-005: Transformer 120V AC - 18V AC

Training

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

* Contact TransCore Sales Support for information concerning regulatory requirements for your region.

** 902.75-903.50 are not recommended. Although these frequencies are approved by the FCC, certain auto manufacturers use these frequencies for their key fobs. As a result, this reader may interfere with the key fob's signal, negatively affecting the ability of the fob to communicate with the vehicle.



atlasRFIDstore

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