

# Proxibus® VPE 415 validator

The essence of contactless ticketing



## **Innovative and durable**

The Proxibus® VPE 415 validator is fitted with an Ethernet connection for instant data exchange. An optional radio communication interface is used to transmit data remotely to other devices. The validator can be geared to any level of interoperability, whether regional, national or European. A crucial advantage proving that the product designers were thinking ahead to the future.

## **Powerful and fast**

The Proxibus® VPE 415 is fitted with a 32-bit microprocessor and a huge memory capacity, giving it faster dialogue and more powerful data processing capabilities than most other validators on the market. With its standardised ticketing coupler it can process all contactless transport tickets, from smart cards to the new disposable contactless tickets.

With the Proxibus® VPE 415 validator, ACS has packed ten years of experience in contactless ticketing into an innovative product geared to all types of network.



### Ergonomic and sleek

The Proxibus® VPE 415 has an elegant design for a modern, refined look. Text and icons are displayed on a customisable screen.

Three LED indicators give the user information on the status of his ticket.

The validator is flat and compact and is fitted to vertical bars of varying diameters using a system of brackets. A pin prevents it from rotating (should it be vandalised, for example). Thanks to its wide voltage range, it can be installed seamlessly on all types of buses without the need for an adaptor.

### Reliable and tough

One failure every five years! This reliability, due to a 100% contactless ticketing design, is combined with a remarkable resistance to harsh weather conditions: the Proxibus® VPE 415 is sealed.

### Competitive and open

Equipped with innovative technology, the Proxibus® VPE 415 validator uses highly-integrated components, giving excellent value for money. Thanks to its open design, it integrates seamlessly into existing or new systems.

This performance is the result of ACS's first rate experience in contactless ticketing. Today, ACS offers one of the widest ranges of on-board validators on the market.

### Main functions

- Process of ISO/IEC standard 14443 contactless cards
- Validation distance: minimum 0 cm; maximum 5 to 10 cm depending on type of card
- Storage of software, data concerning ticket processing and validation data
- Configuration: 1 to 16 validators; logical addressing which can be modified directly on the installation kit using microswitches

### Electrical characteristics

- 32 bit Risc microprocessor
- 2 Mb Flash memory, 8 Mb SDRAM, 64 Kb SRAM
- Display: 2 lines of 16 alphanumeric characters, LCD technology
- 3 programmable LEDs (red, orange, green)
- Programmable loudspeaker
- Power supply: from 9 VDC to 32 VDC
- Power consumption: 0.7 A at 9 V and 0.2 A at 32 V

### External interfaces

- 5 serial links: RS232/422/485; RS232; RS422/485; RS485 and Ethernet link
- Infrared link on front panel
- Binary interface: two opto-isolated inputs and one dry contact output

### Physical characteristics

- Material: moulded ABS/PC
- Height: 260 mm, width 161 mm, depth 105 mm
- Weight: 1.6 kg (validator and support)

### Environment

- Operating temperature: -10°C to +55°C
- Storage: -20°C to +60°C
- R&TTE standard 1999/5/CE

### Options

- 4-key maintenance keypad on right-hand side
- Slave USB link
- Personalized contactless ticketing logo on front panel

