



Product description

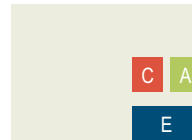
City 200

The high-performance basic model from ACS



The ticket vending machine City 200 is designed for the sale of individual tickets and time-based passes and supports cashless payment (credit and debit cards in accordance with the EMV standard). Available as a stationary and mobile version, the City 200 is ideally suited for use as a supplementary unit at locations with medium to high passenger volumes.

The basic model in the ACS ticket vending machine family includes infrastructure modules providing central functions, such as PC, operating software, power supply and thermal ticket printer. The City 200 and its touchscreen are designed to enable access from wheelchair height. Like all ACS ticket vending machines, the City 200 supports smart cards and electronic ticketing, and has a standard interface to the Arcos Management System. The open system architecture and high-level standardization ensure maximum availability and reliability, coupled with low maintenance and repair costs.



- A Payment segment 1:**
Cashless payment (EFT-POS)
- C Output segment 1:**
Standard-version printer
- E Infrastructure segment:**
PC including operating software and power supply. Options: alarm, temperature module, communication module

Thanks to the consistent modular design of ACS ticket vending machines, they can be easily upgraded, extended and adapted to meet individual operators' requirements.



	Stationary	Mobile
Application Software	■	■
AFC (Automated Fare Collection) component-based software architecture for modular, flexible applications tailored to specific operator needs:		
■ Supports tariff systems based on distance, zones and cell-zones (honeycombs)	■	■
■ Tariff data stored locally in the City 200	■	■
■ Tariff data accessible in real time from remote servers	■	■
■ Supplementary services such as passenger information and electronic ticketing, with link to backend system or call centre	■	■
Operating Software	■	■
The AFC component framework enables easy adaptation of applications to operator requirements:		
■ Windows XP Embedded operating system	■	■
■ CORBA (Omni ORB) middleware serving as communication medium between components	■	■
■ Microsoft Access database	■	■
Passenger Interface	■	■
Integrated operating unit:		
■ High-resolution 10-inch colour TFT display	■	■
■ 10-inch infrared touch frame	■	■
Cashless Payment	■	■
Optional EFT-POS terminal supports a full range of cashless payment options:		
■ Adaptable to country-specific requirements	■	■
■ Supports credit cards, debit cards and electronic purses (e.g. GeldKarte, CASH)	■	■
■ Integrated terminal comprising hybrid reader (magnetic strip/chip) and PIN-Pad	■	■
■ Clearing via LAN / Ethernet interface	■	■
Communication Module	■	■
Communication module for connection to Arcos management system via:		
■ Ethernet (TCP / IP)	■	■

	Stationary	Mobile
■ Standard ■ Optional		
Electronic Ticketing	■	■
Electronic ticketing module with optimal customised functionality:		
<ul style="list-style-type: none"> ■ Supports all ISO 14443 A/B cards 	■	■
<ul style="list-style-type: none"> ■ Can be integrated with a contactless access point in the door of the City 200 	■	■
<ul style="list-style-type: none"> ■ Can be equipped with up to 4 SAMs (Secure Access Module) 	■	■
Printer	■	■
Graphics-enabled thermal printing system (direct thermal technology):		
<ul style="list-style-type: none"> ■ For 54.0 mm, 76.2 mm and 82.55 mm paper widths 	■	■
<ul style="list-style-type: none"> ■ For 1 paper roll 	■	■
<ul style="list-style-type: none"> ■ Pure thermal paper 	■	■
<ul style="list-style-type: none"> ■ Barcode-based paper monitoring / management 	■	■
Hardware	■	■
The PC allows control of all modules used in public transport services:		
<ul style="list-style-type: none"> ■ 600 MHz (optional 1 GHZ) PC 	■	■
<ul style="list-style-type: none"> ■ 256 MB RAM (optional up to 1 GB) 	■	■
<ul style="list-style-type: none"> ■ 512 MB flash card 	■	■
<ul style="list-style-type: none"> ■ Memory Stick 128 MB, suitable as portable or backup medium for sensitive data 	■	■
<ul style="list-style-type: none"> ■ Interfaces: 1 x parallel; 2 x RS232; 2 x USB (1.1 or 2.0); 1 x Ethernet (10 BaseT / 100 BaseTx) 	■	■
Operation	■	■
Power supply (in pedestal, due to limited space) and infrastructure (based on the Power Bus concept):		
<ul style="list-style-type: none"> ■ AC/DC converter for an input voltage range of 93 to 264 VAC/147-63 Hz and an output voltage of 24 VDC/240W 	■	■
<ul style="list-style-type: none"> ■ DC/DC converter including UPS for an input voltage range of 18–36 VDC from vehicle battery and an output voltage of 24 VDC/200W 	■	■
<ul style="list-style-type: none"> ■ Uninterruptible power supply (UPS) for industrial range 	■	■
<ul style="list-style-type: none"> ■ Terminal protection through integrated residual current circuit breaker (300mA) 	■	■
<ul style="list-style-type: none"> ■ Temperature module (required for operating temperatures below –5°C) 	■	■
<ul style="list-style-type: none"> ■ Country-specific socket with or without personal protection (30mA) 	■	■
Housing	■	■
The housing can be adapted to operator requirements:		
<ul style="list-style-type: none"> ■ Galvanised or stainless steel sheet 	■	■
<ul style="list-style-type: none"> ■ Aluminium 	■	■
<ul style="list-style-type: none"> ■ Flexible locking system (uniform, group or single locking) 	■	■
<ul style="list-style-type: none"> ■ Choice of colour based on NCS, Pantone or RAL colour code 	■	■
<ul style="list-style-type: none"> ■ Covers for optional modules (facilitates subsequent retrofitting) 	■	■
Assembly	■	■
Geared for an optimal integration in the installed environment:		
<ul style="list-style-type: none"> ■ Pedestal in a standard height of 860 mm 	■	■
<ul style="list-style-type: none"> ■ Prepared for fitting in tubular frame 	■	■
Ambient Conditions	■	■
The City 200 is designed for the following ambient conditions:		
<ul style="list-style-type: none"> ■ Temperature: –5°C bis +50°C (–25°C bis +50°C, if a temperature module is used) 	■	■
<ul style="list-style-type: none"> ■ Humidity: 24% bis 98% without condensation 	■	■

Transport Revenue
Fare Collection



■ Standard ■ Optional

	Stationary	Mobile
Standards	■	■
The City 200 conforms to the following standards:		
■ CE-compliant	■	■
■ EMC (emissions): EN 50081-1 / IEC 61000-6-3; EN55022 (Class B)	■	■
■ EMC (immunity): EN 50082-2 / IEC 61000-6-2; EN 55024 (1997); EN 50121 (VDE 0115)	■	■
■ Safety: EN 60950 / IEC 60950	■	■
■ Safety (for USA and Canada): UL 751	■	■
■ Climate: EC 60068-2-14 Nb; IEC 60068-2-30 Db; EN 50155; EN 721-3-3 (Classes IE31-IE37)	■	■
■ Vibration resistance: IEC 60068-2-6 Fc (nach DIN 24975); IEC 68-2-29 Eb	■	■
■ Protection: EN 60529 / IP33 (entire terminal); EN 60529 / IP65 (touchscreen/display); EN 60529 / IP34 (card reader slot); EN 60529 / IP33 (output slot)	■ if fitted	■ if fitted
■ Suitability for disabled people: country-specific	■	■

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