

## TECHNICAL DATA MULTIGUIDE PRIMUS

Control	Microprocessor	Material	2,5 mm high-grade stainless steel 1.4301
Data retention	<ul style="list-style-type: none"> <li>Device data in the flash</li> <li>Sales data via lithium battery (10 years useful life)</li> </ul>	Surface	RAL 5011 and RAL 9006 (special paint finishes on request)
Printing	<ul style="list-style-type: none"> <li>Thermal printing</li> <li>Optical paper path monitoring</li> <li>Paper cutter for full and part sections</li> </ul>	Dimensions	450 x 1770 x 280 mm (W x H x D)
Coins	<ul style="list-style-type: none"> <li>Electronic coin slot lock</li> <li>Electronic coin selector for up to 16 different coins</li> <li>Intermediate cash box for up to 32 coins</li> <li>Optical coin selector (option)</li> </ul>	Total weight	Approximately 95 – 125 kg, depending on features
Display	<ul style="list-style-type: none"> <li>User-parameterizable layout</li> <li>LCD screen, illuminated</li> <li>Graphical display, 240 x 64 dots</li> <li>Text display, 20 characters x 4 lines</li> <li>Graphical display, ¼ VGA (option)</li> </ul>	Lamp version/mains powered version	<ul style="list-style-type: none"> <li>230 V AC/50 Hz and 110 V AC/60 Hz</li> <li>12 V DC &lt; 4 mA in standby mode</li> <li>Power draw; 20 W in load mode 12 V/7.2 Ah or 75 Ah battery</li> </ul>
Controls	Piezo-electric keys	Solar version	<ul style="list-style-type: none"> <li>12 V DC, &lt; 4 mA in standby mode</li> <li>Solar module 12 V/14 W to 25 W</li> <li>12 V/54 Ah battery</li> </ul>
Coin cash	<ul style="list-style-type: none"> <li>Removable cash box made from stainless steel with 2 stage lock mechanism</li> <li>Volume of 5 litres (1.3 gallons)</li> </ul>	Battery version	<ul style="list-style-type: none"> <li>12 V DC, &lt; 4 mA in standby mode</li> <li>12V/75 Ah battery</li> </ul>
Standards and certifications	<ul style="list-style-type: none"> <li>DIN ISO 12414:1999</li> <li>CE</li> <li>ADA (for lateral certification impact)</li> <li>Locks according to VdS class B</li> <li>2002/96/EF WEEE</li> <li>2002/96/EF ToHs</li> <li>P3 security class according to VdS guideline 3546 (option)</li> </ul>	Battery version	<ul style="list-style-type: none"> <li>12 V DC, &lt; 4 mA in standby mode</li> <li>12V/75 Ah battery</li> </ul>
Ambient temperature	-25 °C/-15 °C (with/without heating module) to +55 °C		
Humidity rating	acc. to IEC 68		
EMC rating	acc. to CE standards		
Function	acc. to EN 12414		



Simplifying Parking

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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual case. The required features should therefore be specified in each individual case at the time of closing the contract.



PRIMUS pay-and-display machine

## MULTIGUIDE PRIMUS THE INDIVIDUALIST AMONG PAY-AND-DISPLAY MACHINES

**Multiguide Primus is designed for customization. Whether the requirement is payment options, display languages, power supply, casing colour or many other aspects, this pay-and-display machine can be configured as individually as the customer wishes – all at a surprisingly affordable price. As a result, the modular high-tech solution Primus is not only a treat for the eye, but also for the budget – enrichment for any city.**

### All the world's languages

Multiguide Primus is truly intercultural. Even the foreign-language speaker will find the machine easy to use thanks to its clear, modern user interface and multilingualism. In addition to the freely selectable main language, up to four additional languages are made available via a special selection button. And if there is a demand for Mandarin Chinese or Japanese, the graphical user interface version can easily cope with that, too.

### Convincing convenience

With pay-and-display machines, easy and intuitive operation is especially important because people are often in a hurry and don't want to lose time with complicated payment procedures. Multiguide Primus really speeds up things. Its piezo-electric keys engraved with language-neutral symbols make it very easy to use. The ergonomic concept follows a logical and straightforward sequence of steps. And, in order to prevent mix-ups or confusion, the parking ticket and the change are both issued via the same tray.



Piezo-electric keys made from stainless steel, engraved with haptic symbols for ease of use

### Tariffs and advertisements: easy selection - and easy modification

Multiguide Primus also provides an extremely easy way of modifying tariffs and displaying freely definable text messages: the GSM/GPRS link between the PDM and control center allow all changes to be carried out with a click of the mouse right from the office. The second screen serves as a display for free programmable text messages with the weekday and the status of the present user (resident, for instance). The user can choose the applicable tariff - general, flat rate, special – by a simple touch of the tariff button. Moreover, the operator has the possibility to issue smartcards encoded with special conditions for specific groups of users.



With or without solar module – the Primus is an eyecatcher

The Primus integrates as an attractive piece of street furniture – a relief for sore eyes



## MULTIGUIDE PRIMUS: A MAXIMUM IN SAFETY AND FLEXIBILITY

**Safety and security - a multi-faceted topic with pay-and-display machines the units must provide a wide range of cashless payment facilities; they must be able to face the environment for long-term value retention, and they must be safely protected against vandalism, tampering, theft and robbery. When it comes to meeting all these demands, Multiguide Primus is an excellent choice.**

### **Card payment: easy and safe**

the option to pay parking fees by using electronic purses (such as GeldKarte, Quick) or Giro and credit cards provides many benefits for users and operators. The user does not need to rummage for coins anymore; and the operator's risk of seeing the PDMs tampered with, smashed up and broken into are greatly reduced. Welcoming side effect: electronic cash is directly transferable to the operator's bank account via radio data link and thus immediately at his disposal. The Multiguide Primus can transmit data via mobile radio - a very practical solution in conjunction with the control system for submitting electronic payment data.

### **Large choice of stored-value card systems**

besides electronic purses and credit cards, the Primus can also be equipped to accept customer- or city-specific value cards – systems based on magnetic- stripe, chip or contact-less Mifare technologies. With its Master-Slave structure, the management system allows the establishment of many independent points of sale while securing payment flows and prefinancing procedures at all times. Users can also replenish their value cards at the pay-and-display machines.

### **Flexibility at a max**

Payment is a topic with many variables and facets. The machines can be equipped for payment completely without cash, or the opposite for using even different currencies, coins and cash alike, at the same time. Almost all coins and notes can be processed by the Primus. Also tokens or value cards are no.



The electronic coin selector is able to process all currencies, special or rebate coins – even in the mix

Even when the cash box is removed from the machine, the money is always safe and secure. The two-stage lock system, with A and B keys, prevents any prohibited access



### **In many different ways, the Multiguide Primus is protected against vandalism and theft:**

- Doors locked by a system featuring multiple mechanical friction-type connections
- Cash boxes equipped with two-stage lock; separate doors for technical and cash box compartments
- Electronic tamper-proof anti-pin system allows coin insertion only during car park opening hours
- Use of Piezo buttons so that there are no operating elements with moving parts
- Casing openings protected by impact proof covers
- Lock systems with anti-drilling and core-drawing protection (class B approval by the VdS Property Insurers' Association)
- Solar panel mounted at a height of 1.7 m; or external mast-mounted panel as an option



The safest thing there is – credit and debit cards. Whenever they are used no cash is present and any income is instantly credited to the municipality's account



## MULTIGUIDE PRIMUS: MAYBE GREY ON THE OUTSIDE, IT HAS A GREEN HEART

Multiguide Primus is available in pretty much any colour imaginable because we configure the machines exactly to our customer's specifications. But whatever the colour of the casing - silver grey as seen in Calais or blue as used in Copenhagen - all Multiguide machines are in fact exceedingly green products because of their low environmental impact and sustainable concept.

### Solar power

Multiguide Primus is designed for minimum power consumption and can operate as a completely autonomous unit even at very low temperatures. The solar module provides the machine with the required electric power and the mobile radio link connects it with the surveillance center. This mobile radio connection is available 24 hours a day, even with solar-powered PDMs, for transmitting data on every single transaction directly to the central control system. Special advantage: Since no power or data cabling is needed, the installation is very cost-efficient and goes easy on vital resources.

### Efficient protection against environmental hazards and vandalism

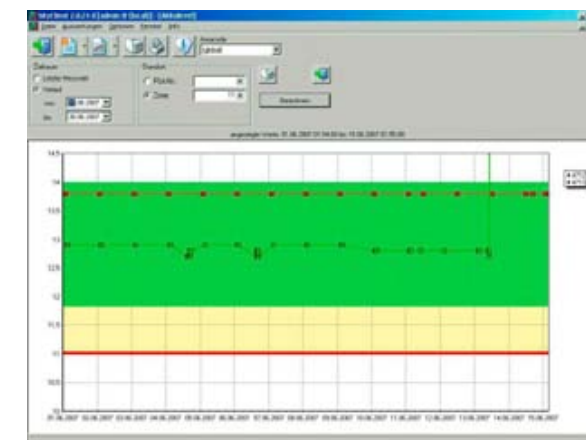
Multiguide Primus has a strong, robust casing made from high-grade stainless steel, ensuring effective protection against external influences and securing value retention over many years. And in the end, after many years of reliable service the casing could be nearly completely recycled. A prime example of sustainability! Also, thanks to the anti-graffiti coating, unwanted "works of art" are very easy to remove with minimum solvent use.

### Less service on site needed, reduced environmental impact

The GPRS/UMTS network allows convenient monitoring and control of all connected PDMs right from the office. Status messages, cash receipt data and revenue statistics are transmitted directly to the surveillance center. This helps optimise the scheduling of service trips and cash removal and minimizes the related costs. If no cash transactions have been effected for a certain period of time, Multiguide Primus notifies the center. This makes it possible to detect even problems that have nothing to do with the actual machine operation (for instance: chewing gum, fake "out of service" signs or other mischief etc.).

### Changing parameter data without on-site intervention

Not even the modification of parameter data such as tariffs, advertising texts or time periods requires on-site intervention! As the tariffs are displayed on the second screen, the PDMs can be provided with new data by convenient remote configuration from the surveillance center, including the relevant activation dates.



All is green – thanks to sophisticated control software, battery health can be checked at all times without a service technician



Thanks to the modular construction concept single components can be easily repaired, exchanged or modernised

Transparent and flexible in construction – Primus machines are especially maintenance friendly

