

ORDINANCE 2019-06-13-0528

**APPROVING THE EXECUTION OF A CHANGE ORDER  
TO THE CONTRACT WITH HUB PARKING  
TECHNOLOGY USA, INC., FORMERLY CTR SYSTEMS,  
INC., FOR THE DESIGN AND INSTALLATION OF A  
PARKING REVENUE CONTROL SYSTEM INCREASING  
THE ORIGINAL CONTRACT BY AN AMOUNT OF  
\$162,198.85, FUNDED BY THE PARKING REPAIR AND  
REPLACEMENT FUND.**

\* \* \* \* \*

**WHEREAS**, on June 17, 2010, City Council passed Ordinance 2010-06-17-0533, which approved a contract with CTR Systems, Inc. for a parking revenue control system to upgrade the City's five downtown parking lots and four multi-level parking garages; and

**WHEREAS**, the new system has worked to maximize traffic flow and significantly improved accounting controls and fiscal procedures through direct integration with the City's financial system; and

**WHEREAS**, in preparation for the use of the City Tower Garage, formerly the Frost Parking Garage, equipment and signage will need to be purchased and installed; and

**WHEREAS**, this ordinance authorizes a change order to the current parking revenue control system contract in the amount of \$162,198.85 in order to outfit this facility with the necessary parking equipment and similar parking technology when compared to other City parking garage facilities;  
**NOW THEREFORE:**

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:**

**SECTION 1.** A change order with HUB Parking Technology USA, Inc. is hereby approved, subject to and contingent upon the deposit of all required bonds, performance deposits, insurance certificates and endorsements. A copy of the change order is attached hereto and incorporated herein for all purposes as **Exhibit I**. The Director of the Center City Development Department or designee is authorized to execute the change order and any related documents.


**SECTION 2.** Funding for this ordinance in the amount up to \$162,198.85 is available in Fund 40099000, WBS Element 19-00028-05-02-01, and GL 5201140.

**SECTION 3.** Payment not to exceed the budgeted amount is authorized to HUB Parking Technology USA, Inc. and should be encumbered with a purchase order. Payment is limited to the amounts budgeted in the Operating and/or Capital Budget funding sources identified. All expenditures will comply with approved Operating and/or Capital budgets for current and future fiscal years.

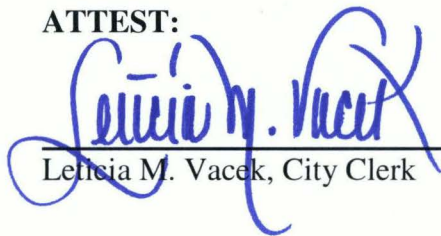
**SECTION 4.** The financial allocations in this ordinance are subject to approval by the Director of Finance, City of San Antonio. The Director of Finance may, subject to concurrence by the City Manager or designee, correct allocations to specific SAP Fund Numbers, SAP Project Definitions, SAP WBS Elements, SAP Internal Orders, SAP Fund Centers, SAP Cost Centers, SAP Functional Areas, SAP Funds Reservation Document Numbers, and SAP GL Accounts as necessary to carry out the purpose of this ordinance.

**SECTION 5.** This ordinance is effective immediately upon passage by eight or more affirmative votes; otherwise, it is effective on the tenth day after passage.

**PASSED AND APPROVED this 13<sup>th</sup> day of June, 2019.**

  
**M A Y O R**  
Ron Nirenberg

**ATTEST:**

  
\_\_\_\_\_  
Leticia M. Vacek, City Clerk

**APPROVED AS TO FORM:**

  
\_\_\_\_\_  
Andrew Segovia, City Attorney



<b>Agenda Item:</b>	<b>51B ( in consent vote: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21A, 21B, 22, 24, 25, 26, 27, 30, 31, 32, 33, 34, 35, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 48, 50, 51A, 51B, 52 )</b>
<b>Date:</b>	06/13/2019
<b>Time:</b>	10:10:52 AM
<b>Vote Type:</b>	Motion to Approve
<b>Description:</b>	Ordinance approving a change order to the contract with HUB Parking Technology USA, Inc., formerly CTR Systems, Inc. for the design and installation of a parking revenue control system increasing the original contract in the amount of \$162,198.85, funded by the Parking Repair and Replacement Fund.
<b>Result:</b>	Passed

<b>Voter</b>	<b>Group</b>	<b>Not Present</b>	<b>Yea</b>	<b>Nay</b>	<b>Abstain</b>	<b>Motion</b>	<b>Second</b>
Ron Nirenberg	Mayor	x					
Roberto C. Treviño	District 1		x			x	
Art A. Hall	District 2		x				
Rebecca Viagran	District 3		x				x
Rey Saldaña	District 4		x				
Shirley Gonzales	District 5		x				
Greg Brockhouse	District 6		x				
Ana E. Sandoval	District 7		x				
Manny Pelaez	District 8		x				
John Courage	District 9		x				
Clayton H. Perry	District 10		x				

LC  
06/13/19  
Item No. 51B

# Exhibit I

## Change Order Request Form

Change Order Number: 16

Project: City of San Antonio Parking Revenue Control System

Date: June 4, 2019

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The contract is changed as follows:

This represents a request by COSA to:

Install three entrance ticket dispensers and associated gates, 2 pay in lane stations with associated gates, 3 pay on foot units and associated 5 loops at newly acquired City Tower Garage (Former Frost Garage).

Adopt Exhibit B (Revised 5.31.2019) as price schedule for common and spare parts.

Original Contract Sum	\$	2,573,186.41
Net change by <u>previously authorized</u> change order #1	\$	+20,465.00
Net change by <u>previously authorized</u> change order #2	\$	-231,784.00
Net change by <u>previously authorized</u> change order #3	\$	+63,224.00
(Change Order #4 was combined with change order #3 and is void)		
Net change by <u>previously authorized</u> change order #5 revision 1	\$	+31,440.00
Net change by <u>previously authorized</u> change order #6	\$	+ 3,870.00
Net change by <u>previously authorized</u> change order #7	\$	+ 9,400.00
Net change by <u>previously authorized</u> change order #8	\$	-74,150.00
Net change by <u>previously authorized</u> change order #9	\$	+21,717.00
Net change by <u>previously authorized</u> change order #10	\$	+75,000.00
Net change by <u>previously authorized</u> change order #11	\$	-\$14,162.00
Net change by <u>previously authorized</u> change order #12	\$	+\$3,247.00
Net change by <u>previously authorized</u> change order #13	\$	+13,013.00
Net change by <u>previously authorized</u> change order #14	\$	+2,626.00
Net change by <u>previously authorized</u> change order #15	\$	+238,043.00
Contract Sum Prior to this change order	\$	2,735,135.41

Contract Sum will be increased by this change order in the amount of \$ +162,198.85

New Contract Sum including this change order will be \$ 2,897,334.26

The Contract Time will be increased by: To be determined

The date of Substantial Completion as of the date of this change order therefore is: See Current Timeline

Note: Equipment will not be ordered without authorization and execution of the change order.

Delivery is subject to manufacturing lead time.

NOT VALID UNTIL SIGNED BY THE CONTRACTOR AND OWNER.

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Owner

\_\_\_\_\_  
Address

\_\_\_\_\_  
Address

\_\_\_\_\_  
By (Signature)

\_\_\_\_\_  
By (Signature)

\_\_\_\_\_  
(Typed Name)

\_\_\_\_\_  
(Typed Name)

\_\_\_\_\_  
Date

\_\_\_\_\_  
(Date)





# QUOTE

Number **LJCQ1310**  
Date **May 6, 2019**

Sold To:	Ship To:	Bill To:
City of San Antonio Aurora Perkins 400 N St Marys Street San Antonio, Texas 78205	City of San Antonio Aurora Perkins 400 N St Marys Street San Antonio, Texas 78205	City of San Antonio Aurora Perkins 400 N St Marys Street San Antonio, Texas 78205

Presented By	Valid Through	Ship Via	Terms
Lee Johnson	6/30/2019	Best Way	Net 30

FROST BANK PROJECT

Qty	Item	Description	Unit Price	Ext. Price
<b>PARKING CONTROL ENTRANCE/ EXIT LANES</b>				
<b>E2NTRANCE LANES - (2 EACH)</b>				
2	LEZG100001	ZEAG Lane Entry Base platform	\$13,755.33	\$27,510.66
2	LEZG121001	Display Front with one Button	\$0.00	\$0.00
2	LEZG169006	Std color - Housing & side/front	\$0.00	\$0.00
2	LEZG171002	115 Volt Power Supply and Heater	\$0.00	\$0.00
2	LEZG181002	Ethernet TCP/IP Network Interface	\$0.00	\$0.00
2	LEZG221002	PCX II Control Board	\$0.00	\$0.00
2	LEZG291003	"Help" Coverage Button	\$0.00	\$0.00
2	14.0002	Door Lock DOM	\$0.00	\$0.00
2	710.0169	2 Keys for Door Lock DOM	\$0.00	\$0.00
2	LEZG131003	UCD 05 with Printer. (MS)	\$0.00	\$0.00
2	APCZG111004	DigiWise Color 10.4 display with Touch	\$0.00	\$0.00
2	LEZG141001	Feeder/ No Escrow	\$0.00	\$0.00
2	LEZG191004	VoIP Intercom mounting kit (Commend, Secure)	\$0.00	\$0.00
2	LEZG201005	Maxi prox	\$0.00	\$0.00
2	LEZG231002	60 mm - Plinth	\$0.00	\$0.00
2	LEZG261001	Chip & PIN ready	\$0.00	\$0.00
2	LEZG301003	Barcode scanner (ValiScan-2D)	\$0.00	\$0.00
2	LEZG311000	No Receipt Printer	\$0.00	\$0.00
2	LEZG321000	No Magn Lock or Door Open sensor	\$0.00	\$0.00
2	LEZG169006C	Std color Hous & cust color s/f	\$0.00	\$0.00
		SubTotal		\$27,510.66
<b>EXIT LANE</b>				
1	LXZG100001	ZEAG Lane Exit Base platform	\$13,296.35	\$13,296.35
1	LXZG121001	Display Front with one Button	\$0.00	\$0.00
1	LXZG169006	Std color - Housing & side/front	\$0.00	\$0.00
1	LXZG171002	115 Volt Power Supply and Heater	\$0.00	\$0.00
1	LXZG181002	Ethernet TCP/IP Network Interface	\$0.00	\$0.00
1	LXZG221002	PCX II Control Board	\$0.00	\$0.00
1	LXZG291003	Intercom button with text on H	\$0.00	\$0.00

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Qty	Item	Description	Unit Price	Ext. Price
1	14.0002	Door Lock DOM	\$0.00	\$0.00
1	710.0169	2 Keys for Door Lock DOM	\$0.00	\$0.00
1	LXZG131003	UCD 05 with Printer. (MS)	\$0.00	\$0.00
1	APCZG111004	DigiWise Color 10.4 display with Touch	\$0.00	\$0.00
1	LXZG141002	Feeder/ Escrow	\$0.00	\$0.00
1	LXZG191004	VoIP Intercom mounting kit (Commend, Secure)	\$0.00	\$0.00
1	APMDP201001	Commend ET908, Factory Installed	\$0.00	\$0.00
1	LXZG201005	Maxi prox	\$0.00	\$0.00
1	LXZG231002	60 mm - Plinth	\$0.00	\$0.00
1	LXZG261001	Chip & PIN ready	\$0.00	\$0.00
1	LXZG301003	Barcode scanner (ValiScan-2D)	\$0.00	\$0.00
1	LXZG311001	Receipt Printer. Standard hous color	\$0.00	\$0.00
1	LXZG321000	No Magn Lock or Door Open sensor	\$0.00	\$0.00
1	LXZG169006C	Std color Hous & cust color s/f	\$0.00	\$0.00
		SubTotal		\$13,296.35
		<b>BARRIER GATES</b>		
3	HUB PRO-M-LCB10H0	HUB Model Tall Parking.Pro Barrier Gate w/ 10' Microboom, Breakaway Flange, Light Grey, Left Hand	\$4,355.40	\$13,066.20
3	KBS01-ST	UPCHARGE# FOR ARTICULATED MICROBOOM - (84" Clearance)	\$0.00	\$0.00
10		Loops-Cut, wrap and seal	\$500.00	\$5,000.00
		SubTotal		\$18,066.20
		<b>PAY ON FOOT STATIONS - (3 EACH)</b>		
		<b>CASH/ CREDIT CARD PAYSTATION</b>		
3	APSZG100001	ZEAG Paystation Base platform	\$27,847.74	\$83,543.22
3	APSZG141002	Feeder/ Escrow	\$0.00	\$0.00
3	APSZG169006	Std color - Housing & side/front panel	\$0.00	\$0.00
3	APSZG171002	115 Volt Power Supply and Heater	\$0.00	\$0.00
3	APSZG181002	Ethernet TCP/IP Network Interface	\$0.00	\$0.00
3	APSZG221002	PCX II Control Board	\$0.00	\$0.00
3	APSZG231002	200 mm Plinth	\$0.00	\$0.00
3	APSZG291003	Intercom button with text on button H	\$0.00	\$0.00
3	APSZG311001	Receipt Printer	\$0.00	\$0.00
3	APSZG131003	UCD 05 with Printer. (MS)	\$0.00	\$0.00
3	APSZG111004	DigiWise Color 10.4 display with Touch	\$0.00	\$0.00
3	APSZG191004	VoIP Intercom mounting kit (Commend, Secure)	\$0.00	\$0.00
3	APMDP201001	Commend ET908, Factory Installed	\$0.00	\$0.00
3	APSZG201000	No proximity	\$0.00	\$0.00
3	APSZG241000	No Coin Processing	\$0.00	\$0.00
3	APSZG281001	Fujitsu 2 - Bill (Note) Dispenser	\$0.00	\$0.00
3	APSZG251001	MFL Bill (Note) acceptor	\$0.00	\$0.00
3	APSZG261001	Chip & PIN ready	\$0.00	\$0.00
3	APSZG301003	Barcode scanner (ValiScan-2D)	\$0.00	\$0.00
3	APSZG331001	Digital Signage	\$0.00	\$0.00
3	APSZG321002	Door open sensor & Magnetic lock	\$0.00	\$0.00
3	APSZG169006C	Std color Hous & cust color s/f panel	\$0.00	\$0.00
3	3032.1500	Cash Cassett for Fujitsu F53 Note Dispenser including lock & key	\$0.00	\$0.00
		SubTotal		\$83,543.22
		<b>INSTALLATION</b>		

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Qty	Item	Description	Unit Price	Ext. Price
1	C-L8-IP-8D.C	Commend License Upgrade G8-IP-4B to G8-IP-8D, L8-IP-8D	\$2,982.42	\$2,982.42
6	B3R0042DY	3.5" O.D x 42" Yellow Powder Coated Dome Top Bollards w/ Mounting Flange & Bolt Cover Plate	\$420.00	\$2,520.00
1		Training, system set-up, and activation	\$14,280.00	\$14,280.00
		SubTotal		\$19,782.42
		Exclusions - Part # 1 (provided in seperate contract - provided by others)		
		- All conduit for both power & data (routed between all of the equipment devices, and from the electrical panels to all of the equipment devices).		
		- All trenching & back fill - to provide conduit to all equipment items.		
		- Equipment concrete islands		
		- 6each vehilce ground loops (wired & sealed).		
		- All power, data & communications wiring.		
		Exclusions - Part # 2 (provided by others)		
		- Permits excluded (or will bid)		
		- Parking Tickets and Validation Tickets (or will bid)		
		- Credit card clearing house account, processing fees and any additional bank required interface components.		
		- DSL Line with static IP address provided to the parking office.		
		- Analog phone line (dedicated) - provided to the parking office.		
		- EMV Crfedit Card Readers		
		- Signage		
		- Painting of the concrete islands.		

#### NOTES

This quotation covers costs that are presently ascertainable. HUB Parking Technology reserves the right to amend this quotation if any unforeseen work is found to be required during the execution of the above scope. This quotation is valid for 60 days.

#### All payments shall be sent to:

**HUB Parking Technology USA Inc.**  
**761 Commonwealth Drive**  
**Warrendale, PA 15086**

Tax is not included

Shipping is not included

SubTotal	\$162,198.85
Tax	\$0.00
Shipping	\$0.00
<b>Total</b>	<b>\$162,198.85</b>

#### APPROVED

\_\_\_\_\_  
Authorized Signature Date

\_\_\_\_\_  
Name Title

#### APPROVED

\_\_\_\_\_  
Authorized Signature Date

\_\_\_\_\_  
Name Title



ZEAG

# AUTOMATED PAY STATION

Automated Pay Station

ZEAG APS is a Pay-on-Foot pay station. It is a comprehensively flexible unit capable of working independently or as part of a networked system. It accepts a variety of tickets and offers customized rates and a wide range of payment methods (coins, bills, credit card, debit card, value or city cards or electronic purse).

Parking  
Technology

HUB





## Base model

- Multilingual high contrast LCD display for user instructions
- Read/Write ticket unit for Magnetic stripe or Barcode tickets
- Illuminated navigation to guide customers step-by-step through the process
- Stainless steel housing
- Standard color - Housing (RAL 9006 White Aluminum) plus side/front panels (RAL 7021 Black Grey)
- Self-refilling coin processing system with coin safe
- Bill validator and stacker safe (600 bills)
- Quick change inserts for customer and rate information
- Thermal paper receipt printer
- Peripheral control unit
- Power Supply
- Heating and cooling units with separate thermostats
- Intercom call button and loudspeaker
- Ticket collection bin
- Individual security lock
- Illuminated coin return tray

## Options

- 10.4" color display and touchscreen
- Chip & PIN plus Wave & Pay terminals for Credit Card In/Credit Card Out (country specific certification)
- Range of contactless RFID proximity readers
- Customized side/front panel color
- Customized housing and side/front panel colors
- Sea/Ocean special protective treatment
- Recycling coin unit with 6 high volume self-refilling hoppers
- Bill dispenser with 2 or 3 cassettes
- Bill to bill recycling device incl. stacker safe (1000 bills) (13 bill types, 4-way, mixed currencies, 3 recycling bays each with capacity for 120 Bills)
- Barcode scanner (1D or 2D options) - reads discount barcode vouchers issued by retailers, shops or others
- Ticket box holder for 5000 tickets
- Variety of base heights (standard 400mm, reduced 200mm)
- Magnetic door lock & door open sensor options
- Digital Signage
- Lost ticket
- Intercom Mounting Kit

## Standard Features

- Online operation (RS422/485 or TCP/IP) or stand-alone operation
- Payment for parking tickets using coins, bills, bank or credit cards & pre-paid value cards
- Change by coins and/or bills/bank notes (subject to the station's specification)
- Credit card payment (magnetic credit card - subject to country specific certification)
- Advanced payment to avoid queuing up
- Chip & PIN Plus Wave & Pay Terminals (subject to specific certification)
- PCI-DSS certified together with Parking Management System
- Lost ticket (fixed rate)
- Remote lost ticket (variable rate)
- Extend contract/monthly cards
- Reload value cards (magnetic/RFID proximity/barcode)
- Accept rebate/chaser/discount tickets
- Convert ticket into contract card
- Read discount barcode vouchers
- Money changer (e.g. for shopping trolley)
- Park & Ride - pay for parking ticket plus optional Public Transport tickets (printed on receipt paper)
- Receipt issued for payment



### Peripheral Dimensions (W x D x H)

800 mm x 555 mm x 1700 mm  
31,5" x 21,9" x 66,9"

### Base Dimensions (H)

200mm; 400mm  
7,9"; 15,7"

### Power Consumption

114W (350W with heating)

### Electrical

90 - 240 VAC, 47-63 Hz

### Temperature

-20°C (-4°F) to 50°C (122°F)





Zeag LE

ZEAG

# ENTRY STATION

Lane Entry Station

ZEAG Lane Entry Stations are designed for fast and smooth issuing of magnetic stripe or barcode tickets. Advanced thermal printing technology is used for clear text printing. The stations can operate as part of a networked system or alternatively stand-alone. Tickets can be automatically issued as the vehicle approaches the station or by touching a ticket issue button. The station also provides Contract Parking verification and securely handles credit cards.

Parking  
Technology

HUB





## Base model

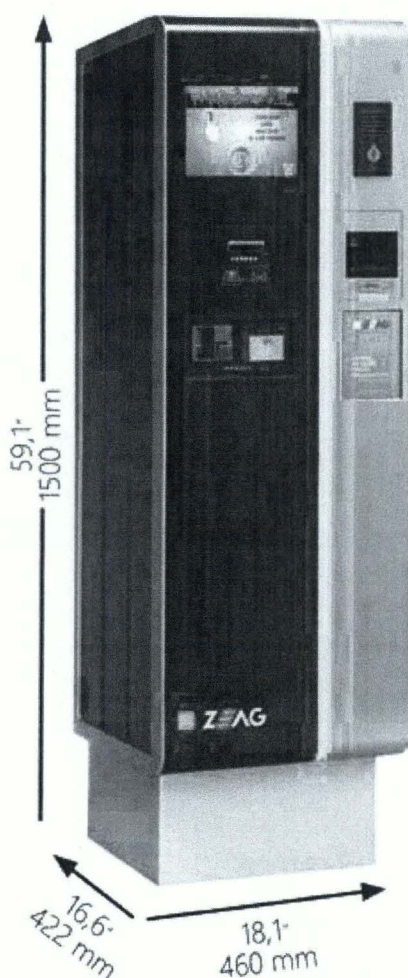
- Multilingual high contrast LCD display for user instructions (4x20 characters)
- Ticket issuing unit for Magnetic stripe or Barcode tickets
- Illuminated navigation to guide customers step-by-step through the process
- Stainless steel housing
- Standard color - Housing (RAL 9006 White Aluminum) plus side/front panels (RAL 7021 Black Grey)
- Peripheral control unit
- Power Supply
- Heating and cooling units with separate thermostats
- Intercom call button and loudspeaker
- Ticket box holder for 5000 tickets and collection bin
- Individual security lock

## Options

- 10.4" color display and touchscreen
- Chip & PIN plus Wave & Pay terminals for Credit Card In/Credit Card Out (country specific certification)
- Range of contactless RFID proximity readers
- Long range hands free automatic (AVI) readers
- Customized side/front panel color
- Customized housing and side/front panel colors
- Sea/Ocean special protective treatment
- Barcode scanner (1D or 2D options)
- Base (standard: 60mm, increased height for Chip & PIN: 200mm)
- Magnetic door lock & door open sensor options
- Intercom Mounting Kit

## Standard Features

- Fast ticket issue (magnetic stripe or barcode tickets)
- Automatic issue as the vehicle approaches the station or, alternatively, by the user pressing a ticket button or inserting a card
- Read after write and antipassback control
- Online operation (RS422/485 or TCP/IP) or stand-alone operation
- Contract, Season or Monthly parking using a wide range of media (magnetic cards, barcode, proximity, AVI, LPR)
- Accepts value cards for parking
- Event Parking
- Credit Card In/Credit Card Out (subject to country specific certification)
- Chip & PIN Plus Wave & Pay Terminals (subject to specific certification)
- PCI-DSS certified together with Parking Management System
- Retraction of alarm tickets and retention of invalid cards
- Gate control
- Pre-booking and pre-payment
- Up to 4 rates - to allow issue of tickets with four different rates (depending on inputs)



### Peripheral Dimensions (W x D x H)

460 mm x 422 mm x 1360 mm  
18,1" x 16,6" x 53,3"

### Base Dimensions (H)

60mm; 200mm  
7,9"; 15,7"

### Power Consumption

114W (350W with heating)

### Electrical

90 - 240 VAC, 47-63 Hz

### Temperature

-20°C (-4F) to 50°C (122F)





Z AG

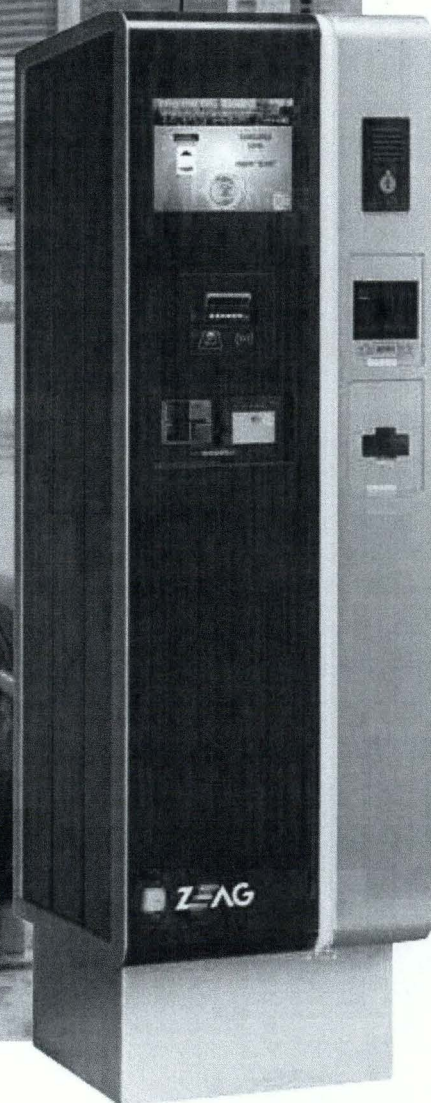
# EXIT STATION

Lane Exit Station

ZEAG Lane Exit Station is installed at the exit of the parking area and can process pre-paid tickets or take payments using credit cards. It accepts a wide range of discount tickets.

Parking  
Technology

HUB





## Base model

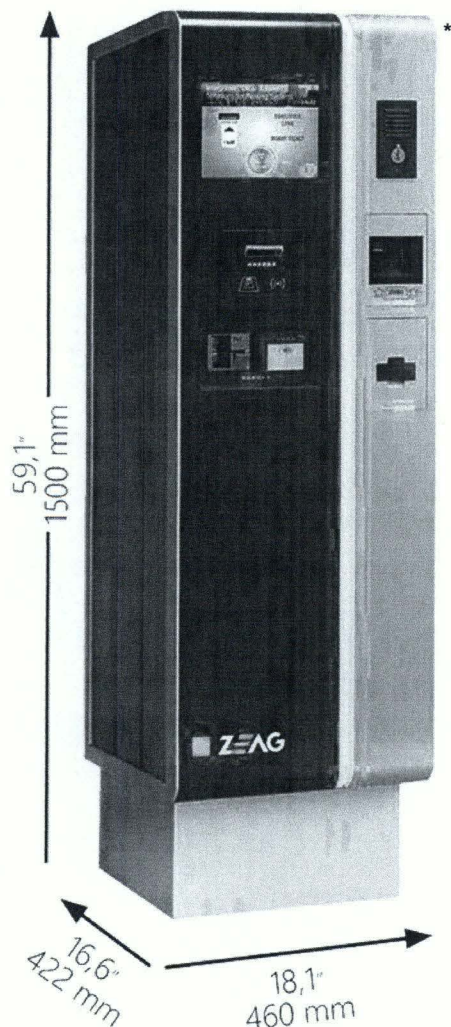
- Multilingual high contrast LCD display for user instructions (4x20 characters)
- Read/Write ticket unit for Magnetic stripe or Barcode tickets
- Illuminated navigation to guide customers step-by-step through the process
- Stainless steel housing
- Standard color - Housing (RAL 9006 White Aluminum) plus side/front panels (RAL 7021 Black Grey)
- Peripheral control unit
- Power Supply
- Heating and cooling units with separate thermostats
- Intercom call button and loudspeaker
- Ticket collection bin
- Individual security lock

## Options

- 10.4" color display and touchscreen
- Chip & PIN plus Wave & Pay terminals for Credit Card In/Credit Card Out (country specific certification)
- Range of contactless RFID proximity readers
- Long range hands free automatic (AVI) readers
- Customized side/front panel color
- Customized housing and side/front panel colors
- Sea/Ocean special protective treatment
- Thermal paper receipt printer
- Barcode scanner (1D or 2D options)
- Base (standard: 60mm, increased height for Chip & PIN: 200mm)
- Magnetic door lock & door open sensor options
- Intercom Mounting Kit

## Standard Features

- Fast ticket read (magnetic stripe or barcode tickets)
- Read after write and antipassback control
- Online operation (RS422/485 or TCP/IP) or stand-alone operation
- Contract, Season or Monthly parking using a wide range of media (magnetic cards, barcode, proximity, AVI, LPR)
- Value card entry, exit and payment
- Accept rebate/chaser/discount tickets/barcode vouchers
- Read discount barcode vouchers
- Credit Card In/Credit Card Out (subject to country specific certification)
- Chip & PIN Plus Wave & Pay Terminals (subject to specific certification)
- PCI-DSS certified together with Parking Management System
- Remote lost ticket (variable rate)
- Retraction of alarm tickets and retention of invalid cards
- Gate control
- Pre-booking and pre-payment



### Peripheral Dimensions (W x D x H)

460 mm x 422 mm x 1360 mm  
18,1" x 16,6" x 53,3"

### Base Dimensions (H)

60mm; 200mm  
7,9"; 15,7"

### Power Consumption

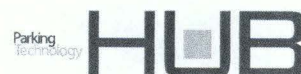
114W (350W with heating)

### Electrical

90 - 240 VAC, 47-63 Hz

### Temperature

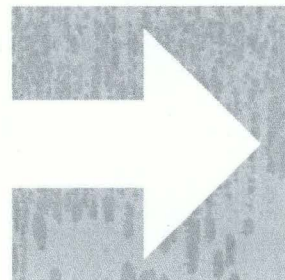
-20°C (-4°F) to 50°C (122°F)





# Barriers

MHTM™ MicroDrive



Parking Pro-M



Parking  
Technology **HUB**

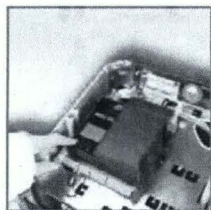


# Parking Pro-M

## MHTM™ MicroDrive

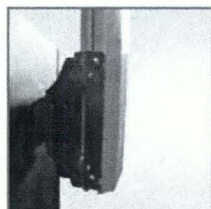
**PARKING PRO-M** barriers were specifically designed for highly frequented applications. The **PARKING PRO-M** barriers do not only offer fast opening times, long-life cycle, reliability and quality. Furthermore, they amaze with extraordinary design, extremely low operational costs, easy handling and almost maintenancefree technology.

In a nutshell: **PARKING PRO-M** barriers are the first choice for car park operators that need to establish an easy and reliable vehicle access control.



### CONTROL UNIT

The control unit MGC Pro is compliant with EN 13849. It is located directly underneath the top cover and can be accessed from all sides. Configuring the barrier is easily accomplished via the LCD's intuitive user interface that can be navigated with just 4 push-buttons.



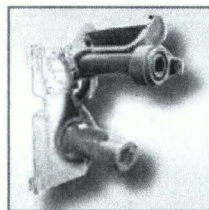
### MICROBOOM AND BREAK-AWAY FLANGE

The Microboom with a foamed edge offers best protection against damages and harm to people. The optionally available break-away flange may be used to drop the whole barrier boom in case of an unwanted or forced drive-through.

### TECHNICAL DATA

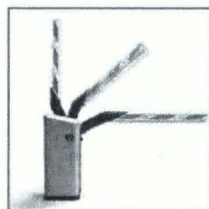
Lane width max.	3.5 m
Opening / closing time	1.3 s
Power consumption max.	95 W
Duty cycle	100%
Supply voltage	Wide voltage range 85 - 264 V AC
Frequency	50 - 60 Hz
Housing dimensions (WxDxH)	315 x 360 x 1115 mm
Weight (without boom)	44 kg
Housing design	Powder-coated aluminium
Base frame	Powder-coated stainless steel
Protection class	IP 54
Compliant with	2004/108/EC, 305/2011, 2006/42/EC, CE, UL 325
Temperature Range	-30 to +55 °C

- **High ease of use**
- **Maximum accessibility**
- **Only 95W power consumption**
- **MCBF of 10 Mio cycles**
- **Safe control unit according to EN 13849**
- **Maximum connectivity (I/O, TCP/IP, RS-485, etc.)**
- **Best protection against corrosion thanks to extruded aluminium profiles and a base frame made of stainless steel**
- **Winner of the Red Dot Award Product Design 2012 and German Design Award 2014**



### DRIVE UNIT

The drive unit is small in size but allows to obtain a high torque with an extremely minimized power consumption. The high torque guarantees best operation even under severe weather conditions. The motor, motor controller and gearing are all combined in one compact drive unit.



### LED ILLUMINATION STRIP

The optional LED strips illuminate the closing edge of the barrier boom on both sides. They are securely installed underneath the foamed edge protection.

The LED strips vastly enhance the visibility of the barrier boom. Even under poor conditions or at night, the barrier boom may be recognized from a long distance.

Compared to an unlit barrier boom, the perceptibility is yet enhanced in broad daylight.

### FEATURES

Microboom	Standard
Control unit	MGC Pro
Integrated 2-channel loop detector	Standard
Control unit modularly extendable	Standard
Variable I/O assignment	Standard
Number of digital inputs	8
Number of relay / digital outputs	6/4
Closing times selectable	Standard
Opening times selectable	Standard
Solar / battery option	Optional
Extended accessories	Optional
Specified number of cycles	10 Mio
Warranty	2 Years