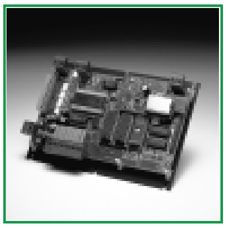
1998 Price list

plexa

NET LOGICS FOR ACCESS CONTROL AND PRESENCE CONTROL

CONCENTRATOR LOGIC BOARDS



Logic boards for control of multiple accesses for interfacing with non-dedicated PC for programming and data upload. Management of from 500 to 30,000 different codes. A basic software package for programming stand-alone use mode is supplied. Capability for management in RS485 network of 127 different logic boards and terminals. Direct connection to modem for remote interrogation (requires "SFW M"). Compatible with PLW peripherals. Power supply at 24 Vdc.

BCA NET/H	Serial logic board with multi I/O remotizable on two-wire line (S-ART or S-ARR modules) ideal for control of hotel rooms or as alarm concentrator: complete control of 4 access points, 700 codes and 1.000 events as basis, with possible expansion x2 (requires EXP BCA/2)	1.523.000
PLW NET	Advanced technology serial logic board (without container) for high security, high flexibility access control, complete control of 6 access points, 850 codes and 500 events as basis, with possible expansion x2, x4, x8 (requires EXP NET/2, /4, /8)	1.586.000

TERMINALS

Logic units with keyboard and backlit display for presence control for interfacing with non-dedicated PC for programming and data upload. Management of from 500 to 30,000 different codes. A basic software package for programming stand-alone use mode is supplied. Capability for management in RS485 network of 127 different logic boards and terminals. Direct connection to modem for remote interrogation (requires "SFW M"). Compatible with PLW peripherals. ULB NET and ULB PROX terminals may be used to allow access control for 6 complete access points. Power supply at 24 Vdc.

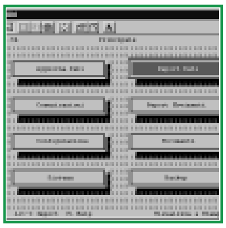
UCA NET	Terminal with two-way wipe-over magnetic badge reader, control of 700 codes and 1.000 events as basis, with possible expansion x2 (requires EXP BCA/2)	2.003.000
UCA PROX	Terminal with proximity microchip reader (ARIS), control of 700 codes and 1.000 events as basis, with possible expansion x2 (requires EXP BCA/2)	2.950.000
ULB NET	Terminal with two-way wipe-over magnetic badge reader, complete control of 6 access points, 880 codes and 500 events as basis, with possible expansion x2, x4, x8 (requires EXP NET/2, /4, /8)	3.108.000
ULB PROX	Terminal with proximity microchip reader (ARIS), complete control of 6 access points, 880 codes and 500 events as basis, with possible expansion x2, x4, x8 (requires EXP NET/2, /4, /8)	4.260.000

NET LINE ACCESSORIES

Accessories for NET terminals and logic boards. RAM memory expansions for increasing the potential of systems x2, x4, x8. Interfaces for RS232 - RS485 standards for connections in network and with PC. Specific screened RS485 data cables for critical applications in disturbed environments.

EXP BCA/2	RAM memory expansion of 32 Kb x 2 for BCA NET/H, UCA NET and UCA PROX	105.000
EXP NET/2	RAM memory expansion of 32 Kb x 2 for PLW NET, ULB NET and ULB PROX	105.000
EXP NET/4	RAM memory expansion of 32 Kb x 4 for PLW NET, ULB NET and ULB PROX	263.000
EXP NET/8	RAM memory expansion of 32 Kb x 8 for PLW NET, ULB NET and ULB PROX	525.000
COM 485	Screened, twisted data cable specifically for RS485 communications (per metre)	4.000
COM 485/G	Screened, twisted data cable specifically for RS485 communications, especially for applications in disturbed environments (per metre)	13.000
CNT A1	Plastic container for PLW NET - dimensions: 125 x 230 x 210 mm	110.000
ML 485	RS485 interface module for connection of several PLW NET, ULB NET and ULB PROX logic units together, with other terminals and concentrators and/or to PLC located more than 15 metres away	356.000
CVT 485	RS232 - RS485 conversion interface for installation close to PC for connection of logic boards and/or terminals (with ML 485 module on board when necessary) - power supply 220 VAC	434.000
CVT 485/M	Multiple RS232 (1 IN) - RS485 (4 OUT) conversion interface	1.302.000
S-ART	Serial module on two-wire line 2 IN + 2 logic OUT for BCA NET/H logics	70.000
S-ARR	Serial module on two-wire line 2 logic IN + 2 OUT for BCA NET/H logics	90.000

SOFTWARE

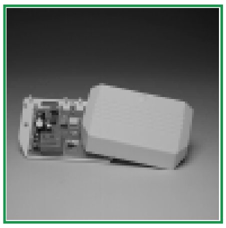


Further additional modules can be optionally used for functional implementations. The SFW M module requires an external modem, 14.400 bps, V.32 bis, autoanswer or superior, connected to the Access Control and/or Presence Management system.

SFW CA1	Advanced technology access control for systems from 1 to 3 concentrators or terminals	840.000
SFW CA3	Advanced technology access control for systems from 4 to 127 concentrators or terminals	1.995.000
SFW M	Additional software module for modem control, for direct connection of a logic board, a terminal or a network of logic boards and/or terminals to a modem for download of data from PC by switched telephone line	900.000
SFW F	Additional time-band software module for SFW CA1 and CA3	158.000
SFW S	Additional badge expiry date software module for SFW CA1 andCA3	158.000
SFW P	Additional P.I.N. and anti-coercion software module for SFW CA1 and CA3	263.000
SFW B	Additional anti pass-back software module for SFW CA1 and CA3	525.000
SFW CP	Additional presence control software module for SFW CA1 and CA3	945.000

PLW DECODERS FOR ACCESS CONTROL

PLW SERIAL DECODERS



Access control units which control PLW peripherals for activation of on-board relays by means of numerical codes, also sent as DTMF pulses from telephone line. Each decoder controls up to 16 PLW peripherals in a network; these peripherals may be keyboards, magnetic badge readers and proximity microchips. The various models of decoder manage from 3 to 500 different codes and from 1 to 64 on-board relays.

PLW 380/1	Decoder with 30 numerical codes and 1 relay in plastic container	113.000
PLW 380/3	Decoder with 3 numerical codes and 3 relays in plastic container (requires programming keyboard)	163.000
PLW 380/128	Decoder with 126 numerical codes and 1 relay in plastic container	182.000
PLW 380/500	Decoder with 500 numerical codes and 1 relay in plastic container	293.000
PLW 380/MR1	Decoder with 126 numerical codes and 4 on-board relays which can be increased up to 64 using PLW 380/RA modules - codes associated to 1 or more relays (requires programming keyboard) - housed on DIN rail	396.000
PLW 380/MR2	Decoder with 126 numerical codes and 4 on-board relays which can be increased up to 16 using PLW 380/RA modules - peripherals associated to 1 relay - housed on DIN rail	396.000
PLW 380/RA	4 relay module for PLW 380/MR - housed on DIN rail	176.000
PLW DT4	Telephonic decoder with 4 numerical codes and 4 on-board relays (requires programming keyboard) - housed on DIN rail	290.000

PLW "COMPACTS": KEYBOARD + DECODER

3 relay decoder with built-in keyboard for programming, with possibility of connection to PLW peripherals for data acquisition by means of numerical codes and/or personal magnetic badges for access control, usable as stand-alone systems, for subdivision of burglar alarm systems, etc.

PLW 382	PLW serial keyboard in polycarbonate with 3 code decoder with 3 built-in relays for access control; possibility of connection to other PLW peripherals, also ideal for use outdoors - projecting installation	220.000
	ACCESSORIES:	
CNT 3P	Outdoor rain shelter in black anodized aluminium for PLW 382	24.000

INTERFACES

Interface for converting output signals from the PLW decoders into common standards for passage reports on printer and/or on-line PC, also usable for programming of codes on the decoder from PC. The PLW 232 conversion interface, which allows connection of a decoder to PC and/or to on-line printer, is supplied with output for 80 column printers; state any requests for modifications to this standard when ordering.

PLW 232	Conversion interface from PLW line to RS232 and Centronics standards (specify number of printer columns if different from 80) - requires PLW serial keyboard or Personal Computer for date and time programming	466.000

PRINTERS

24 column impact printer, power supply 220 VAC. For connection to access control systems with PLW decoder, requires PLW 232 conversion interface. Ideal for installation in security cabinets. The PLW PRN 3 version can also be ordered with 24 Vdc. power supply (state when ordering).

PLW PRN 2	24 column event recorder impact printer - Centronics parallel output	1.213.000

PLW PERIPHERALS FOR ACCESS CONTROL

SERIAL KEYBOARDS

PLW peripherals for data acquisition by means of personal numerical codes for access control, for connection to NET logic boards (addressing required on order) or PLW decoder. The Ticino Living® and Vimar idea® versions are supplied with polycarbonate for horizontal installation; specify any modifications required to this standard when ordering.

PLW 380/TP	12 key serial keyboard for outdoor use in scratch-proof polycarbonate - projecting installation	110.000
PLW 380/TAL	12 key serial keyboard in white anodized aluminium - projecting installation	150.000
PLW 380/OT	12 key vandal-proof serial keyboard for outdoor use in treated brass polycarbonate - inset installation	915.000
PLW 385	10 key serial keyboard for indoor use on Ticino Living® mechanics - inset installation	110.000
PLW 386/TIN	13 key serial keyboard for outdoor use in Terraneo Tersystem 2000® mechanics - inset installation	334.000
PLW 386/TSP	13 key serial keyboard for outdoor use in Terraneo Tersystem 2000® mechanics - projecting installation	390.000
PLW 387	12 key serial keyboard for indoor use on Vimar idea® mechanics - inset installation	110.000
PLW 388	Vandal-proof serial keyboard for outdoor use in painted steel with security lock with key and cylinder; 12 keys, nighttime illumination - Projecting installation	289.000
	ACCESSORIES:	
GN 380/TP	Protective rubber sheath for PLW 380/TP for use outdoors	6.000

SERIAL READERS FOR ISO 2 TRACK MAGNETIC BADGES

PLW peripherals for access control data acquisition by means of personal magnetic badges coded in Plexa standard (ISO 2 track, first 8 characters) for connection to PLW decoders or logic boards. Possibility of replacing ISO 2 track head with ISO 3 track version (requires TK3) and/or of reading codes in positions other than the Plexa standard (first 8 characters - requires PRS). When ordering, specify the need to use the customer's badges to allow the necessary personalization.

PLW 760/ST	PLW wipe-over serial reader for indoor or outdoor use in white anodized aluminium, ISO 2 track - projecting installation	560.000
PLW 760/IN	PLW insertion serial reader for outdoor use in white anodized aluminium, ISO 2 track - inset installation - waterproofed as standard	685.000
PLW 765	PLW serial reader for indoor use on Ticino Living® mechanics, ISO 2 track - inset installation	400.000
PLW 767	PLW serial reader for indoor use on Vimar Idea® mechanics, ISO 2 track - inset installation	400.000
	ACCESSORIES:	
CNT 7A	White anodized aluminium outdoor rain shelter for PLW 760/ST	36.000
CNT 7B	Anodized aluminium mounting box for PLW 760/IN	70.000
CNT 7C	Black anodized aluminium outdoor rain shelter for PLW 760/IN (requires CNT 7B for installation on wall or door/window frame)	36.000
CNT 7D	Free-standing supporting column for outdoor use in galvanized, painted iron (RAL 2004) for PLW 760/IN badge insertion reader	647.000
CNT 7M	Galvanized steel box for insetting in wall for PLW 760/IN badge insertion reader	28.000
IMP 760	Waterproofing process for PLW readers except for PLW 760/IN for outdoor use (surcharge added to list price of individual reader)	105.000
TK3	Replacement of ISO 2 track reader head for badges coded with ISO 3 track (surcharge added to list price of individual reader)	90.000
PRS	Personalization of reading head to use badges with significant fields other than the first 8 (Plexa standard), to be added for each order	105.000

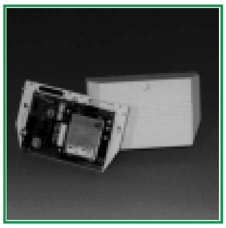
PLW "COMPACTS": KEYBOARD + READER

PLW peripherals for data acquisition by means of numerical codes and/or personal magnetic badges for access control, for connection to PLW decoders or logic boards. Possibility of replacing ISO 2 track head with ISO 3 track version (requires TK3) and/or of reading codes in positions other than the Plexa standard (first 8 characters - requires "PRS"). When ordering, specify the need to use the customer's badges and/or the need to use the keyboard always combined with the reader ("non automatic ENTER") to allow the necessary personalization.

PLW 1140/LT	PLW serial unit, 12 key keyboard + wipe-over magnetic badge reader, ISO 2 track - projecting installation	668.000
	ACCESSORIES:	
TK3	Replacement of ISO 2 track reader head for badges coded with ISO 3 track (surcharge added to list price of individual reader)	90.000
PRS	Personalization of reading head to use badges with significant fields other than the first 8 (Plexa standard), to be added for each order	105.000

ARIS PROXIMITY IDENTIFICATION SYSTEM

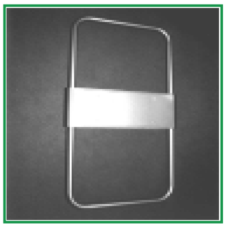
CONTROL MODULES



Control modules for ARIS line proximity antennas. Provide power supply to the connected antennas (one antenna every PAR PLW or PAR PLW/A control module) and decoding of the codes received from the transponders, which are sent to the decoders or logic boards with PLW communications protocol. Power supply from 20 to 38 Vdc.

PAR PLW	Control module in plastic container 135 x 85 x 32 mm for use with PAR A0/A, PAR A0/L, PAR A0/V, PAR A1 and PAR A2 antennas	1.447.000
PAR PLW/A	Control module in plastic container 166 x 118 x 75 mm for use with PAR A3, PAR A4, PAR A5, PAR A6, PAR A7 and PAR AV antennas	1.447.000

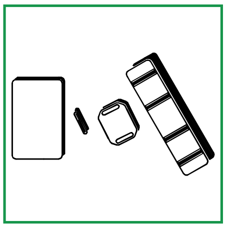
ANTENNAS



Controlled by a PAR PLW module, they receive the transponder codes read at a distance for subsequent decoding by PLW logic boards or decoders. They permit extremely user-friendly access control, with vandal-proof or hands-free characteristics if required, with the guarantee of high security and durability thanks to the absence of contact with the transponders.

PAR A0/A	Proximity reading antenna for indoor use in 1 Ave® module - dimensions 25 x 45 x 40 mm, range up to 20 cm with PAR TC	168.000
PAR A0/L	Proximity reading antenna for indoor use in 1 Ticino Living® module - dimensions 25 x 45 x 40 mm, range up to 20 cm with PAR TC	168.000
PAR A0/V	Proximity reading antenna for indoor use in 1 Vimar idea® module - dimensions 25 x 45 x 40 mm, range up to 20 cm with PAR TC	168.000
PAR A1	Vandal-proof outdoor proximity reading antenna in module for installation in masonry - dimensions 40 x 20 x 2 mm - range up to 20 cm with PAR TC - inset installation	200.000
PAR A2	Outdoor proximity reading antenna in polycarbonate container - dimensions 75 x 105 x 30 mm - range up to 40 cm with PAR TC - projecting installation	320.000
PAR A3	Panel type outdoor proximity reading antenna - dimensions 270 x 720 x 10 mm - range up to 70 cm with PAR TC - projecting or inset installation	630.000
PAR A4	Panel type outdoor proximity reading antenna - dimensions 520 x 940 x 10 mm - range up to 100 cm with PAR TC - projecting or inset installation	840.000
PAR A5	Indoor proximity reading antenna in structureless version for pedestrian use for hands-free access control - dimensions 800 x 2000 cm - range: total coverage of passage through access point with PAR TC - shape and size can be personalized on request - inset installation	378.000
PAR AV	Completely airtight outdoor proximity reading antenna for use with vehicles, for installation sunk into the ground - dimensions 1000 x 2000 mm approx. - range up to 170 cm with PAR TV - shape and size can be personalized on request - inset installation	630.000
PAR A7	Outdoor proximity reading antenna in painted PVC for use with vehicles - installation on 60 mm road-sign post - dimensions 590 x 1150 x 100 mm - range up to 200 cm with PAR TD	1.870.000

TAG TRANSPONDERS



Literally "responders", the heart and brain of the ARIS systems, they contain a silicon permanent memory with a 64 bit structure which allows generation of over 5,000,000,000 unique code combinations which cannot be duplicated. The absence of batteries guarantees less pollution than with other similar systems, as well as virtually unlimited lifetime.

PAR TC	Pedestrian proximity transponder, ISO standard badge format - dimensions 86 x 54 mm.	29.000
PAR TG	Capsule format proximity transponder in impact-resistant sterilizable glass - dimensions: dia. 3.8 x 23 mm.	39.000
PAR TK	Key-ring or watch format pedestrian proximity transponder - dimensions: 42 x 33 x 7 mm.	44.000
PAR TS	Disc format pedestrian proximity transponder - dimensions: dia. 30 x 6.5 mm.	39.000
PAR TD	Disc format vehicle windscreen proximity transponder - dimensions: dia. 86 x 5 mm.	50.000
PAR TV	Cylindrical format vehicle proximity transponder in impact-resistant material - dimensions: 130 x 30 x 18 mm.	140.000

ARIS PROXIMITY "COMPACTS": ANTENNA + CONTROL MODULE

Proximity reading unit complete with control module, and communications interface for connection to PLW decoders or logic boards. Further simplifies the installation of proximity access control. Power supply 20 or 38 Vdc.

UCPRX1	Proximity reading antenna with built-in control module for indoor use - dimensions: 130 x 80 x 27 mm - range up to 50 cm with PAR TC - completely projecting installation	1.905.000

PHYSICAL ACCESS CONTROL SYSTEMS

TURNSTILES

Anti-panic one/two-way three-bar turnstiles in painted steel, ideal for indoor or outdoor use for complete access control. Hydraulic damper. Anti-panic system for automatic unlocking in case of power supply failure. Output for two-way passage counter. Also available in version with anti climb-over system with sequential visual control by means of 3 photocells or with anti-panic release system allowing the individual arms to fall. State the width of the access passage to be covered when ordering.

PASSATOR	One/two-way three-bar turnstile in painted steel (uprights and top) and polished AISI 304 stainless steel (arms and lower tie-rod) - power supply 24 Vdc.	6.097.000
PASSATOR 2	One/two-way three-bar turnstile in painted steel (uprights) and polished AISI 304 stainless steel (top, arms and lower tie-rod) - power supply 24 Vdc.	6.524.000
PASSATOR 3	One/two-way three-bar turnstile in polished AISI 304 stainless steel - power supply 24 Vdc.	7.203.000

ACCESSORIES:

PASS 1	Aluminium platform to make the turnstile stable even without fixing to the ground	861.000
PASS 2	Barrier in polished AISI 304 stainless steel for channelling traffic through the access passage	420.000
PASS 3	Table-top power supply unit with mimic display panel for complete management of turnstile	987.000
PASS 4	Impartial control system with random cut-out and local and remote signalling	998.000
PASS 5	Anti-panic system for manual release of each single turnstile arm, allowing the arm to fall	700.000
PASS 6	Two-way LED traffic light with 3 colour (red, green and amber) passage indicator arrows	260.000
PASS 7	Support in polished AISI 304 stainless steel for installation of ULB NET or ULB PROX terminal on PASSATOR turnstile	560.000
PASS 8	Photocell for inset installation without reflector, for use on PASSATOR turnstiles	350.000
PASS PLW	One-way magnetic badge reader in painted aluminium with PLW output for connection to NET series logic boards	560.000
PASS TTL	Two-way magnetic badge reader in painted aluminium with TTL output for connection to NET series logic boards	500.000
PASS ANT	Complete anti climb-over system comprising 3 photocells diam.18 mm with adjustable range connected to a sequential logic control board with output for connection to remote alarm	2.100.000

GATES

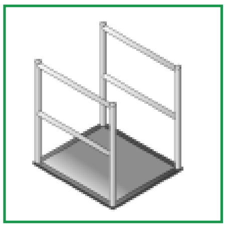
Anti-panic one/two-way motor-operated gates and one-way push-open gates in painted steel and polished AISI 304 stainless steel. State the width of the access passage to be covered when ordering.

OK PASS	One/two-way motor-operated gate in painted steel (upright) and polished AISI 304 stainless steel (gate) - to cover access passages from 60 to 120 cm as ordered - power supply 24 Vdc.	5.250.000
OK PASS 2	One/two-way motor-operated gate in polished AISI 304 stainless steel - to cover access passages from 60 to 120 cm as ordered - power supply 24 Vdc.	6.160.000
PASS EASY	One-way push-open gate for entries or exits in polished AISI 304 stainless steel - to cover access passages from 60 to 120 cm as ordered	1.463.000

ACCESSORIES FOR OK PASS:

PASS 2	Barrier in polished AISI 304 stainless steel for channelling traffic through the access passage	420.000
PASS 3	Table-top power supply unit with mimic display panel for complete management of OK PASS gate	987.000
PASS 4	Impartial control system with random cut-out and local and remote signalling	998.000

MONITORED FREE ACCESS POINTS



One/two-way free access points with passage monitoring by means of 3 photocells diam. 18 mm. adjustable range without reflector, with only one barrier and photocells, in polished AISI 3104 steel (PAS-SI) or comprising aluminium platform and two polished AISI 304 steel barriers. Outputs for two-way passage counter. State the width of the access passage to be covered when ordering. Power supply 24 Vdc.

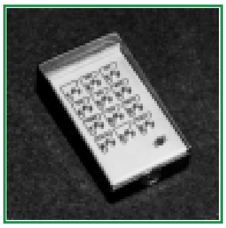
PAS-SI	Control system with single barrier for one- or two-way access points, using 3 photocells - dimensions: 920 × 900 mm.	2.290.000
PAS-SI 2	Control system with double barrier and platform for one- or two-way access points, using 3 photocells - dimensions: 720 × 920 × 900 mm. - cover access passages: 620 mm.	3.535.000

ACCESSORIES:

PASS 1	Aluminium platform to make the barrier stable even without fixing to the ground	861.000
PASS 2	Barrier in polished AISI 304 stainless steel for channelling traffic through the access passage	420.000
PASS 3	Table-top power supply unit with mimic display panel for complete management of barrier	987.000
PASS 4	Impartial control system with random cut-out and local and remote signalling	998.000

PLE, PLT AND PLX STAND-ALONE ACCESS CONTROL SYSTEMS

DIGITAL KEYS



New concept digital keys and keyboards (with on-board relays) for small access control and/or burglar alarm control systems. Completely replace the Plexa PLX digital key line. Improved compared to the previous version, they feature an increase to 5 numerical codes in memory with "Night Codes" for temporary disabling of the keyboard and the possibility of network connection of up to 16 elements of the PLE line (PLE PWR module required for each net). The Ticino Living® and Vimar idea® versions are supplied with polycarbonate unit for horizontal installation; state any modifications to this standard required when ordering. Power supply from 12 to 24 Vdc. without polarity.

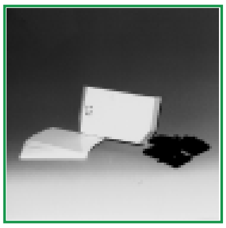
PLE 385	Indoor digital key on Ticino Living® mechanics, 10 keys, 5 codes and 2 relays	198.000
PLE 386/IN	Outdoor digital key on Terraneo Tersystem 2000® mechanics, 13 keys, 5 codes and 2 relays - led lighting - inset installation	386.000
PLE 386/SP	Outdoor digital key on Terraneo Tersystem 2000® mechanics, 13 keys, 5 codes and 2 relays - led lighting - projecting installation	486.000
PLE 387	Indoor digital key on Vimar idea® mechanics, 12 keys, 5 codes and 2 relays	198.000
PLE 388	Vandal-proof outdoor serial keyboard in painted steel with security lock with key and cylinder, 12 keys and 5 codes - projecting installation	364.000
	ACCESSORIES:	
PLE PWR	Power supply interface module for connecting 2 to 16 PLE line elements together	24.500

LOW COST MAGNETIC BADGE READERS

ISO standard magnetic badge readers and decoders for stand-alone indoor access control. 5-wire TTL communications between reader and decoders supplied individually or in kits. Connection of just one reader per decoder over a maximum distance of 1 metre. Possibility of replacing ISO 2 track head with ISO 3 track version (requires "TK3") and/or of reading codes in positions other than the Plexa standard (first 8 characters - requires "PRS"). When ordering, specify the need to use the customer's badges to allow the necessary personalization.

PLT 760/ST	Wipe-over indoor reader with head emulation (TTL) output in white anodized aluminium, ISO 2 track - projecting installation	205.000
PLT 380/1	TTL decoder with 30 codes and 1 relay for connection to 1 PLT 760/ST	142.000
PLT 380/128	TTL decoder with 126 codes and 1 relay for connection to 1 PLT 760/ST	232.000
PLT KIT	Aluminium wipe-over TTL reader + TTL decoder with 30 codes and 1 relay	315.000
	ACCESSORIES:	
TK3	Replacement of ISO 2 track reader head for badges coded with ISO 3 track (surcharge added to list price of individual reader)	90.000
PRS	Personalization of reading head to use badges with significant fields other than the first 8 (Plexa standard), to be added for each order	105.000

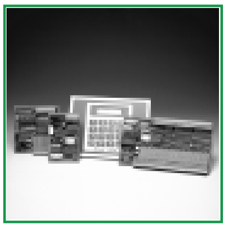
LOW COST PROXIMITY CHIP READERS



Proximity microchip readers with built-in encoders for stand-alone indoor access controls. 475 personal codes managed by means of ISO standard format badges with or without magnetic strip or key-rings: programming for auto-learning. Maximum range of 15 cm.

PAR PLX	Indoor proximity reader with 475 code decoder and 1 built-in relay	1.428.000
PAR XA	ISO standard magnetic badge format proximity microchip with codifiable magnetic strip	24.000
PAR XB	Key-ring format proximity microchip (dimensions 30 x 30 x 5 mm)	24.000
PAR XC	ISO standard magnetic badge proximity microchip	22.000

ICL51 PROGRAMMABLE LOGIC BOARDS

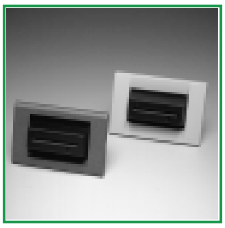


Open frame multi I/O logic boards, programmed or programmable by means of software, for control in stand-alone mode or with PC connection of counters, car-parks, interlocks, timing systems, systems with inputs and outputs in general, etc. Housed on DIN rail.

ML 14A	Master logic board with 8 opto-insulated two-way inputs (without polarity) and 6 relay outputs	564.000
ML 36A	Master logic board with 20 opto-insulated two-way inputs (without polarity) and 16 relay outputs	864.000
ICL 51	Development software for programming of ML 14A and ML36A logics, additional modules and accessories	420.000
PRN1	Standard printer interface slave module for master logics	342.000
PTD2	Terminal panel slave module with 16 key keyboard and 32 character display for master logics	574.000
EXP16A	Slave expansion module with 8 opto-insulated two-way inputs (without polarity) and 8 relay outputs	490.000
EXP36A	Slave expansion module with 32 open collector outputs for master logics	900.000
PRG1	RS232/RS485 standard serial interface slave module for master logics with galvanic insulation in plastic container, complete with wires and connectors	734.000
PRG2	RS232/RS485 standard serial interface slave module for master logics	356.000
MLW	Clock and calendar slave module for master logics	64.000

PLX STAND-ALONE MAGNETIC READERS

DIMENSIONAL IDENTIFIERS



Dimensional badge identifiers ideal for use in hotel room control systems. Badge-holder pockets for use indoors on Ticino Living® and Vimar idea® standard mechanics, inset installation.

PLX 725	Indoor insertion type badge-holder pocket on Ticino Living® mechanics	79.000
PLX 727	Indoor insertion type badge-holder pocket on Ticino Living® mechanics	79.000

MAGNETIC CARD IDENTIFIERS

ISO standard magnetic badge identifiers ideal for use in access controls for cash-point areas. Possibility of identification of magnetic cards in track 2 (credit cards) and/or track 3 (bank cash cards) with selection even by final customer during installation.

PLX 720/ST	Wipe-over magnetic card identifier in track 2 and/or 3 - projecting installation	548.000
PLX 720/IN	Wipe-over magnetic card identifier in track 2 and/or 3 - inset installation	646.000

MAGNETIC BADGE READERS

ISO standard magnetic badge readers with standard interface for connection to access control systems and/or on-line connections to PC. ISO 2 track head can be replaced with one in ISO 3 track (requires "TK3").

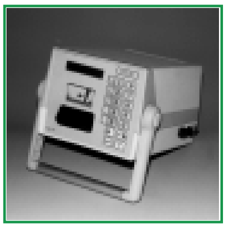
PLX 730/ST	Outdoor wipe-over reader with head emulation (TTL) output in white anodized aluminium ISO 2 track - projecting installation	267.000
PLX 730/IN	Outdoor wipe-over reader with head emulation (TTL) output in white anodized aluminium ISO 2 track - inset installation	354.000
PLX 735	Indoor insertion reader with head emulation (TTL) output on Ticino Living® mechanics, ISO 2 track - inset installation	205.000
PLX 737	Indoor insertion reader with head emulation (TTL) output on Vimar idea® mechanics, ISO 2 track - inset installation	205.000
PLX 780/ST	Outdoor wipe-over reader with RS232 output in white anodized aluminium ISO 2 track - projecting installation	712.000
PLX 780/IN	Outdoor wipe-over reader with RS232 output in white anodized aluminium ISO 2 track - inset installation	845.000

ACCESSORIES FOR MAGNETIC BADGE IDENTIFIERS

Complete accessories for ISO standard magnetic badge identifiers. Personalization for replacement of ISO 2 track head with one in ISO 3 track ("TK3"). Containers for installation outdoors, set into walls, underwater, etc.

CNT 7A	White anodized aluminium outdoor rain shelter for wipe-over readers	36.000
CNT 7B	Black anodized aluminium mounting box for outdoor insertion readers	70.000
CNT 7C	Black anodized aluminium rain shelter for outdoor insertion readers (requires CNT 7B for mounting on wall or door/window frame)	36.000
CNT 7D	Free-standing outdoor vehicle column in galvanized, painted iron (RAL 2004) for outdoor insertion readers	647.000
CNT 7M	Box for installation in masonry in galvanized steel for outdoor insertion readers	28.000
IMP 720	Waterproofing of wipe-over readers for outdoor use (surcharge added to list price of individual reader)	105.000
TK3	Personalization of reading head for badges coded with ISO 3 track (surcharge added to list price of individual reader)	90.000

PLX MAGNETIC BADGE CODERS

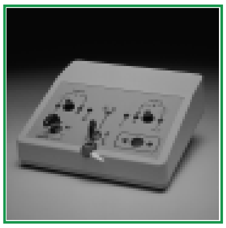


Motor-operated readers/writers for ISO standard track 2 and 3 magnetic badges for independent, personalized coding management. Possibility of connection to PC by means of RS232 port, on-board display and keyboard or, as an alternative in PLX 787 versions, coding management software in Windows® environment, and high coercivity reading head (HI.CO at 4,000 Oe).

PLX 767	Magnetic badge coder, low coercivity (300 Oe) with keyboard and display	4.400.000
PLX 767/H	Magnetic badge coder, high coercivity (4.000 Oe) with keyboard and display	4.600.000
PLX 787	Magnetic badge coder, low coercivity (300 Oe) without keyboard and display, with software package	4.000.000
PLX 787/H	Magnetic badge coder, high coercivity (4.000 Oe) without keyboard and display, with software packaging	4.200.000

PLX SYSTEMS AND SENSORS FOR BANK CONTROL

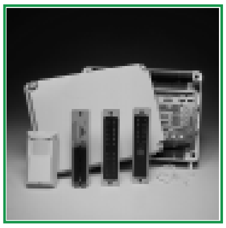
INTERLOCK CONTROL UNITS



High professional interlock control units and consoles for banking or residential applications. Control kits complete for access door capsule are designed for completion with traffic lights, intercoms, sensitive handles, photocells, etc., depending on specific requirements.

PLX 500	Extremely high performance interlock console for automatic and manual one/two-way control	2.500.000
PLX 501	High performance interlock console for automatic and manual one/two-way control	1.008.000
PLX 502	Medium performance interlock console for manual one/two-way control	840.000
PLX 505	Timed interlock for condominium doorway control	231.000

CASH-POINT AREA CONTROL KIT



Kit for control of access to and time spent in cash-point areas. Comprises control unit, power supply unit with battery charger, plastic container, wipe-over track 2 and/or 3 magnetic badge identifier (replaceable with a PLX 720/IN insertion identifier as required), two aluminium traffic-lights (indoor with 2 messages with time request button, and outdoor with 4 messages), dual technology sensor and magnetic proximity stop for door closed position. Allowing complete, timed, personalizable management of the cash-point area, including multi-message voice syntheses, remote alarms, etc. (optionals to be stated when ordering).

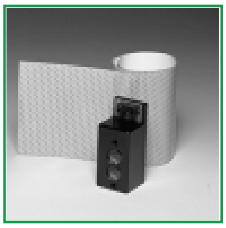
PLX 611	Complete kit for access control and presence management for cash-point areas	3.800.000
PLX 612	Simplified kit for access control and presence management for cash-point areas	2.580.000

INTERPHONES

Live voice communication system between indoor and outdoor positions separated by bullet-proof security glass, ideal for banks and public and private offices.

INTERVOX	Two-way communications system complete with indoor station comprising a single unit with microphone, speaker and control electronics; outdoor station comprising rod microphone up to 60 cm long (state when ordering) and speaker	1.418.000

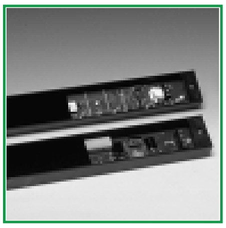
REFLECTION OPTIC BARRIERS AND PHOTOCELLS



Barrier optic photocells for signalling alarms or presence inside banks or public premises in general. When ordering, state photocell interspace and length of casing in case of complete barrier (requires CRT 413, PLX 413/C and PLX 440). For indoor installation only.

PLX 413/OC	Indoor reflection photocell with open-collector output, range from 3 to 7 metres - power supply 12/24 Vdc.	104.000
PLX 413/RL	Indoor reflection photocell with relay output, range from 3 to 7 metres - power supply 24 Vdc. (12 Vdc. on request)	104.000
	ACCESSORIES	
PLX 413/C	Flat cable connector (specify inter-connector distance)	6.000
PLX 440	Piloting unit - power supply at 24 Vdc. (12 Vdc. on request)	116.000
CRT 413	Black anodized aluminium casing (per metre)	111.000
PLX 490	Ultra high efficiency reflective tape (per metre)	54.000

TELESYNCHRONIZED BARRIER OPTIC BARS



Telesynchronized barrier optic bars for signalling alarms or presence inside banks or public premises in general. When ordering, state beam interspace and barrier length. For indoor installation only.

PLX 416	Control electronics without beams with relay output	138.000
PLX 416/R	Projector + receiver pair for beams at interspace 35 mm or multiples	36.000
PLX 416/C	Double casing in black anodized aluminium (per metre)	111.000

SENSORS

Dual technology sensors. Magnetic contacts. Circuits for single and double sensitive handles for installation on the moving parts of security doors or capsule access doors; supplied as standard with power supply at 24 Vdc.; specify any modifications required to these standards when ordering.

PLX 310	Capacitative circuit for single sensitive handle	158.000
PLX 330	Capacitative circuit for double sensitive handle	238.000
PLX 420	Dual technology sensor - power supply 24 Vdc.	305.000
PLX 432	Magnetic contact	13.000
PLX 461	Active infrared sensor for indoor use - power supply 12/24 Vdc.	438.000

PLX INDICATORS FOR BANK CONTROL SYSTEMS

TRAFFIC LIGHTS

Optic indicators for banking, civil and industrial systems. Supplied as standard with power supply at 24 Vdc., negative switching, white anodized aluminium; specify any modifications required to these standards when ordering. The versions in Ticino Living® mechanics are all for vertical inset installation except for PLX 475.

PLX 470/2	Aluminium traffic light with 2 messages “COME IN - WAIT”, in two colours (green and red)	287.000
PLX 470/4	Aluminium traffic light with 4 messages “WAIT - FREE - CLOSED - COME IN”, in two colours (green and red)	412.000
PLX 470/RT	Aluminium traffic light with 1 message “REQUEST TIME” and time request button in 1 colour (red)	357.000
PLX 470/F	Aluminium traffic light with 2 messages “COME IN - WAIT”, in two colours (green and red) and illuminated button	256.000
PLX 475	Traffic light in Ticino Living® mechanics with message “OPEN DOOR” and illuminating button in two colours (green and red) - horizontal installation	240.000
PLX 475/2	Traffic light in Ticino Living® mechanics with 2 messages “COME IN - WAIT”, in two colours (green and red)	223.000
PLX 475/4	Traffic light in Ticino Living® mechanics with 4 messages “WAIT - FREE - CLOSED - COME IN”, in two colours (green and red)	412.000
PLX 475/RT	Traffic light in Ticino Living® mechanics with 1 message “REQUEST TIME” in one colour (red) and time request button	268.000
	ACCESSORIES:	
CNT 7A	White anodized aluminium outdoor rain shelter for PLX 470	36.000
IMP 470	Waterproofing of PLX 470 traffic lights for outdoor use	105.000

INTERCOMS, TRAFFIC LIGHTS + INTERCOMS

Optic indicators and intercoms for banking, civil and industrial systems. Supplied as standard with power supply at 24 Vdc., negative switching, white anodized aluminium; specify any modifications required to these standards when ordering.

PLX 480/F	Outdoor intercom unit in anodized aluminium (140 x 40 x 11 mm) - projecting installation	200.000
PLX 485	Outdoor intercom unit in Ticino Living® mechanics - vertical inset installation	197.000
PLX 480	Outdoor intercom unit in anodized aluminium (180 x 40 x 11 mm) complete with traffic light section - projecting installation	343.000
	ACCESSORIES:	
CNT 7A	White anodized aluminium outdoor rain shelter for PLX 480	36.000
IMP 480	Waterproofing of PLX 480 intercom for outdoor use	105.000
PLX 481	Intercom interface for Terraneo® indoor unit	208.000
PLX 481/P	Intercom interface in plastic container for two-way communications system with console indoor unit	290.000

VOICE SYNTHESIS UNITS

Voice synthesis units with one or two messages for interlock systems of banks and public systems in general. All two message voice synthesis units, supplied without container, are available in version which can be recorded by the final user by means of built-in microphone or in the pre-recorded version (requires DGT C2).

PLX C2/A	Voice synthesis unit with 2 pre-recorded messages (requires DGT C2) for total of 8 seconds without container	260.000
PLX C2/AR	Voice synthesis unit with 2 messages recordable by user for total of 8 seconds without container	340.000
PLX C2/B	Voice synthesis unit with 2 pre-recorded messages (requires DGT C2) for total of 32 seconds without container	420.000
PLX C2/BR	Voice synthesis unit with 2 messages recordable by user for total of 32 seconds without container	500.000
PLX C12	Voice synthesis unit with 1 message recordable by user lasting 12 seconds, in plastic container	300.000
	ACCESSORIES:	
DGT C2	Digitization of messages from cassette for recording on PLX C2/AR and/BR (depending)	13.000
CNT C2	Plastic container for PLX C2 (100 x 100 x 55 mm)	32.000

PLX EMERGENCY DOOR CONTROL SYSTEMS

Control unit and management console for one emergency door provided with complete acoustic and visual alarm diagnostic. Allows unlocking timed control (from 0" up to 40") and acousting alarm signalling door opening.

CPE 10	Control unit and management console for one emergency door	696.000

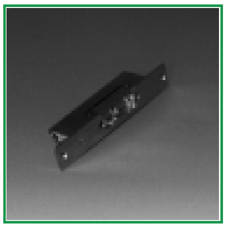
ACCESSORIES

POWER SUPPLY UNITS, BATTERIES AND SIRENS

Power supply units for all Plexa product lines. Supplied with or without built-in battery charger.

AL 15	Power supply unit for decoderless PLW line, direct power supply to PLW serial keypads or readers	105.000
AL 4024	24 Vdc, 1,8A power supply unit - without containter	214.000
AL 6024	24 Vdc, 2,5A power supply unit - without containter	235.000
AL 24024	24 Vdc, 10A power supply unit - without containter	615.000
AL 54VA	24 Vdc, 2,5A power supply unit with battery charger - without container	426.000
AL 590	24 Vdc, 8A switching power supply unit with battery charger - without container	566.000
PLX SRN	Indoor 110dB siren, provided with bracket - power supply 12 Vdc - dimensions 43x40x58 mm.	45.000
	ACCESSORIES	
BATT 12/2	12 Vdc, 2Ah buffer battery	48.000
BATT 12/6	12 Vdc, 6Ah buffer battery	67.000
CNT A1	Plastic container for AL24024, AL 590 - dimensions 125x230x310 mm.	110.000
CNT A2	Plastic container for AL 4024, AL 6024, AL 54VA - dimensions: 100x195x210 mm.	100.000

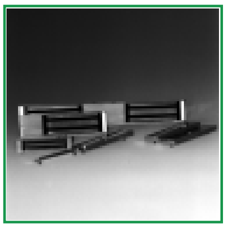
ELECTRIC LOCKS, ELECTRIC STOPS



Accessories for all Plexa product lines. Accessories for all Plexa product lines. Electric piston locks and electric stops for civil and/or banking applications. Power supply 24 Vdc.

PLX 580	Electric piston lock - power supply 24 Vdc.	700.000
PLX 580/A	Electric piston lock in anti-panic version - power supply 24 Vdc.	700.000
PLX 581	Electric stop, lightweight version - power supply 24 Vdc.	520.000
PLX 581/B	Electric stop, security version - power supply 24 Vdc.	958.000

ELECTROMAGNETS FOR EMERGENCY DOORS



Electromagnets at 12/24 Vdc. for applications on single or double emergency doors. Extremely high resistance to stresses up to over 500 kg. Power supply from 12 to 24 Vdc.

ELM 180	Miniature electromagnet for surface installation, retention of over 180 kg.	312.000
ELM 300	Electromagnet for inset installation, retention of over 300 kg.	347.000
ELM 500/S	Single electromagnet with LED, retention of over 500 kg.	545.000
ELM 500/D	Single electromagnet with LED, retention of over 500 kg.	1.055.000
	ACCESSORIES:	
ELM V	Double L and Z bracket for fixing the counter-plate of the ELM 500/S	221.000
ELM L	L bracket for fixing the counter-plate of the ELM 500/S	170.000
ELM z	Z bracket for fixing the counter-plate of the ELM 500/S	170.000

STANDARD, NON STANDARD, BLANK OR PERSONALIZED BADGES

PVC magnetic badges, ISO standard 0.76 mm for Plexa readers. Coding with Plexa standard envisages consecutive numbering of 8 characters, guaranteeing uniqueness, with punching in legible form on the badge; all requests for punching and/or coding with numbers to customer specification are considered "non Plexa standard". For personalization with thermal sublimation printing, provide outline instructions for production, an original of the colour logotype and/or photographs for printing on the badge. Personalized printing is always on one side of the badge (specify if required on back).

PLW 720/T	Blank white badges with magnetic band with low coercivity (300 Oe) (not coded, not punched and not printed).
PLW 760/T	Standard white badges with magnetic band with low coercivity (300 Oe) (coded and punched with Plexa standard).
PLW 760/TM	Standard badges with magnetic band with low coercivity (300 Oe), with monochrome printing (coded and punched with Plexa standard).
PLW 760/TC	Standard badges with magnetic band with low coercivity (300 Oe), with 256-colour printing (coded and punched with Plexa standard).
PLW 760/FT	Standard badges with magnetic band with low coercivity (300 Oe), with 256-colour printing with passport photograph, (coded and punched with Plexa standard).
PLW */H**	Badges in version with high coercivity magnetic band (HI.CO. at 4000 Oe), coded and punched with Plexa standard

Quantity	PLW 720/T	PLW 720/TH	PLW 760/T	PLW 760/TH	PLW 760/TM	PLW 760/TMH	PLW 760/TC	PLW 760/TCH	PLW 760/TF	PLW 760/TFH
1-50	950	1.045	4.700	5.170	7.400	8.140	10.800	12.000	18.800	21.600
51-100	900	990	3.600	3.960	5.800	6.380	9.800	10.900	17.900	19.700
101-500	800	880	2.900	3.190	5.000	5.500	9.000	10.000	16.400	18.000
501-1000	650	715	2.500	2.750	4.500	4.950	8.100	9.100	to order	to order

Customers may also order:
- Badges with coding and punching to specification (non Plexa standard) with a surcharge on the list prices of 10%; state the numbering for punching, the numbering of coding and the ISO track (2 and/or 3) to be used.
- Badges in special assortments and quantities to be agreed (separate quotations on request).

GENERAL CONDITIONS OF SALE

ORDERS

- By signing the order, the customer enters into a purchasing contract which Plexa S.r.l. will fulfil, if accepted, only in accordance with its contents.
- Prices are net of V.A.T.
- Orders of less than 200,000 lire net are not accepted.
- Plexa S.r.l. will only fulfil orders received by post or fax. Plexa S.r.l. may draw up a "confirmation of order" at its own discretion.
- For transport procedures, the purchaser must indicate the chosen means of shipment and the name of the carrier, or that he will collect the goods with his own vehicle.
- Delivery dates agreed are guideline and do not entitle the purchaser to cancel the order.

OFFERS, VALIDITY

- Any offers or order proposals drawn up by Plexa S.r.l. or its appointees are valid for 60 (sixty) days.

PAYMENTS

Plexa S.r.l. may permit the following types of payment.

- in cash or by cheque enclosed with the order (discount 5% in invoice);
- on delivery of the material (discount 5% in invoice);
- cash on delivery payable to carrier (discount 5% in invoice);
- bank payment order at 60 (sixty) days after invoice date with specific indication of the bank to be used.
- Any insolvency or delay in meeting agreed payment terms entitles Plexa S.r.l. to suspend supply of goods in progress.
- Interest at the rate of 5% per annum above the prime rate will be charged on late payments.

WARRANTY

The material supplied is guaranteed for 12 (twelve) months after the date of delivery, against defects in materials or manufacture.

- Plexa S.r.l. undertakes to replace the faulty piece and/or repair it free of charge further to return to Plexa S.r.l. or its local Service Centres in order to allow verification of the defect and the validity of the warranty.
- Faulty and replaced pieces are propriety of Plexa S.r.l.
- Any goods returned for replacement and/or repair during the warranty period must be consigned to Plexa S.r.l. or to its local Service Centres freight prepaid, and will be returned to the customer with freight payable at destination.
- Labour will be charged at cost and then invoiced.
- Any acknowledgement of defects and/or no conformities in the goods sold shall not constitute any liability on the part of Plexa S.r.l. and shall not constitute grounds for a request for compensation for damages by any title or through any action by the customer.
- The warranty becomes null and void if the material suplied by Plexa S.r.l. is modified, used improperly and/or tampered with.
- Systems must be constructed in accordance with the criteria stated in law 46 dated 5 March 1990.

WORK BY TECHNICAL STAFF

- Work by internal technical staff on systems for any reason must be agreed in advance with Plexa S.r.l. and any invoices will be issued on the following conditions:
  80.000 lire per hour for the duration of the work and travelling time of a system technician;
  100.000 lire per hour for the duration of the work and travelling time of a software technician;
  650 lire per kilometre for travel.

CLAIMS, COMPLAINTS AND RETURNS

- Any claims or complaints must be received, documented, by Plexa S.r.l. or its local Service Centres within 8 (eight) days after the date of receipt of the material and do not constitute grounds for interruption of payments.
- Any returns must be agreed with and authorized by Plexa S.r.l. in advance and must be made freight prepaid.
- A charge of 20% will be made for returns for which we are not responsible.

DELIVERY

- 30 (thirty) working days after the date of receipt of the order. The term set is purely guideline and not binding.

TRANSPORT

- Goods travel at the purchaser's risk, by means chosen by the purchaser and with expenses for his account, charged in the invoice if requested.

QUOTATIONS

- Plexa S.r.l. reserves the right to vary the price list (in whole or in part), informing its customers. The prices applied will be those of the price list in force when the order is placed.

DISCOUNTS

- Any discounts granted by Plexa S.r.l. appointees must be approved by the sales management before they are actually applied.

SUPPLY

- Plexa S.r.l. undertakes to supply the goods ordered with exclusion of assembly, installation and testing.

DISPUTES

- The Bologna Law Court has jurisdiction over any disputes.

IMPORTANT NOTES

- The magnetic card readers are supplied with ISO 2 track reading heads as standard. Specif the request of ISO 3 track reading head when ordering (extra charge).
- The PLW 760/T magnetic badges are supplied with ISO 2 track magnetic band, coded with low coercivity (300 Oe), conscutive numbering and punching in legible form (numbering equal to code), first 8 characters as standard. Specify reading track, coding, coercivity, punching different from standard when ordering (extra charge).
- The PLW keypads used in systems with NET logic boards and terminals or PLW 380/MR decoders, have to be addressed by Plexa before delivery depending on the use no extra charge).
- The reading distances stated in this documentation refer to tests performed in environments ideally free from disturbances and are therefore to be considered the maximum range in optimum conditions. Plexa S.r.l. tests all antennas produced in its workshops and therefore declines any responsibility for installation of antennas in places with sources of disturbance which may impair operation of the antennas.

- This price list annuls and replaces previous editions.
- (®) Trademarks registered by their legitimate proprietors.
- All products based on Ticino Living®, Vimar idea® and Ave® series mechanics are supplied without plaque.
- Plexa S.r.l. reserves the right to modify the data stated herein, even without notice.

Exclusive distributor: