## General catalogue 2011-2012

Export



## Access control

## More ease-of-installation? Always welcome!

From the simple but indestructible bell push button to the more sophisticated intercom or videophone - Niko offers a wide range of internal and external units for access control. Easy to install and with unlimited extendibility. More user-friendly than ever thanks to our latest preprogrammed kits.


## NEW INTERNAL UNITS WITH FIRST-RATE DESIGN

- extremely compact design
- design fits in any living room or kitchen
- internal video unit with touch-sensitive controls
- can be mounted in a flush-mounting box
- wide range of functionalities
- extra bell so you never miss a call


## COMPACT, RELIABLE EXTERNAL UNITS

- all external units are made of 3 mm - to 7 mm -thick aluminium
- surface-mounting version only extends 16 to 20 mm from the wall
- double anodised - weather and wind resistant
- impact-resistant and equipped with an anti-vandal name plate
- all external video units are equipped with a colour camera
- razor-sharp image
- good visitor visibility, even at night

EASY TO INSTALL

- easy to program
- service tool available for analysis and programming
- unlimited extension possibilities


## COMPLETE SOLUTION WITHIN ONE RANGE

- internal and external units in both door intercom and video systems
- the range is suitable for apartments as well as detached homes
- attractive kits for homes
- interfaces for telephone network or video surveillance systems
- solution for access control with scalable levels of access



## Audio kit, hands-free

This two-wire audio kit includes an external unit with one push-button doorbell, an internal unit and a power supply module. The kit is pre-programmed so that all you have to do is connect it! The microphone and speaker on the external unit are adjustable. The external unit is equipped with an illuminated text field for personalisation. The ring tone volume can be adjusted or switched off on the internal unit. The communication with the external unit is hands-free. The door lock can be directly connected to the power supply. The kit is expandable.

- external unit: see $10-15 \mid$
- power supply: see I0-801
- internal unit: see I0-520

Expandable with

- I internal audio unit $10-520$ or $10-5 \mid I$
- pre-programmed
- I external audio unit

Complete pack
Doorcom set audio, handsfree


## Door communication set video hands-free

This video kit includes the following products: a surface-mounting external video unit made of aluminium with one push-button doorbell and a colour camera, a power supply and a white internal unit with a colour screen and touch-sensitive controls. The kit is pre-programmed so that all you have to do is connect it. The microphone and speaker on the external unit are adjustable. The external unit is equipped with an illuminated text field for personalisation and IR LEDs for better visibility at night. The ring tone volume as well as the image settings can be adjusted on the internal unit. The communication with the external unit is hands-free. The door lock can be directly connected to the power supply. The set is expandable.

- external unit: see $10-401$
- power supply: see 10-806
- internal unit: see 10-570
- pre-programmed

Expandable with

- I internal video unit $10-570$ or $10-571$ and a splitter I0-824-0|

OR
with 3 internal audio units $10-51 \mathrm{I}$ or 10-520

- I external audio unit
- I relay I0-83I for controlling an extra gate or enclosure
- protective cap 10-876 for external unit


## Complete pack

## Surface mounting external unit 16 mm

The compact surface-mounting unit is made completely of aluminium; the surface-mounting height is only 16 mm . This external unit is equipped with a vandalresistant, 4 mm -thick Plexiglas nameplate. The maintenance-free, gold-plated push button contacts guarantee a long life span. Thanks to the 2 -wire technology, an existing bell push button can easily be replaced by an external unit.

- adjustable speaker and microphone
- bell push buttons can be used for switching the light
- electronic parts protected against water and corrosion
- removable memory (EEPROM)
- confirmation tone for the visitor

Complete units

| I bell push button, $153 \times 104 \times 16 \mathrm{~mm}$ | $\mathbf{1 0 - 1 5 I}$ | Pack: I |
| :--- | :--- | :--- |
| 2 bell push buttons, $53 \times 104 \times 16 \mathrm{~mm}$ | $\mathbf{1 0 - 1 5 2}$ | Pack: I |
| 3 bell push buttons, $153 \times 104 \times 16 \mathrm{~mm}$ | $\mathbf{1 0 - 1 5 3}$ | Pack: I |
| 4 bell push buttons, $153 \times 104 \times 16 \mathrm{~mm}$ | $10-154$ | Pack: I |
| 6 bell push buttons, $197 \times 104 \times 16 \mathrm{~mm}$ | $10-156$ | Pack: I |
| 8 bell push buttons, $24 \times 104 \times 16 \mathrm{~mm}$ | $10-158$ | Pack: I |

## Surface mounting external unit $\mathbf{2 0 m m}$ with I row of bell push buttons

This sturdy surface-mounting door intercom unit is finished in 7 mm -thick aluminium. The surface-mounting height is only 20 mm . The external unit is equipped with a vandal-resistant, 5 mm -thick, Plexiglas nameplate. The maintenance-free, gold-plated push button contacts are extremely durable. This series is equipped with large nameplates and is therefore extremely suitable for professional purposes.
By means of the extension modules, this series of external units can be extended to up to a max. of 23 bell push buttons. Extension module with same finish as the external unit. Given that the modules are opened at the bottom, they must be mounted laterally on the external unit.

- adjustable speaker and microphone
- every button has a memory for 2 serial numbers
- confirmation tone for the visitor
- bell push buttons can be used for switching the light
- electronic parts protected against water and corrosion
- removable memory (EEPROM)


## Complete units

| I bell push button, $166 \times 135 \times 20 \mathrm{~mm}$ | 10-171 | Pack: I |
| :---: | :---: | :---: |
| 2 bell push buttons, $166 \times 135 \times 20 \mathrm{~mm}$ | 10-172 | Pack: I |
| 3 bell push buttons, 204x $135 \times 20 \mathrm{~mm}$ | 10-173 | Pack: I |
| Extension modules |  |  |
| Extension 4 bell push buttons, $166 \times 135 \times 20 \mathrm{~mm}$ | 10-172-01 | Pack: I |
| Extension 5 bell push buttons, 204x135x20mm | 10-173-01 | Pack: I |

## Accessories

Cover cap, $83 \times 139 \times 60 \mathrm{~mm}$
10-876
Pack: I

## Surface mounting external unit 20 mm with 2 rows of bell push buttons

This sturdy surface-mounting unit is finished in 7 mm -thick aluminium. The surface mounting height is only 20 mm . The external unit is equipped with a vandalresistant, 5 mm -thick, Plexiglas nameplate. The maintenance-free, gold-plated push button contacts are extremely durable. Equipped with a double column of bell push buttons and therefore suitable for large housing complexes. This range of external units is available for up to 92 bell push buttons when using the extension modules.

Extension module have the same finish as the external units. Given that the modules are opened at the bottom, they must be mounted laterally on the external unit.

- adjustable speaker and microphone
- every button has a memory for 2 serial numbers
- confirmation tone for the visitor


## Complete units

| Complete units |  |  |
| :---: | :---: | :---: |
| 4 bell push buttons, $128 \times 135 \times 20 \mathrm{~mm}$ | 10-104 | Pack: I |
| 6 bell push buttons, $147 \times 135 \times 20 \mathrm{~mm}$ | 10-106 | Pack: I |
| 8 bell push buttons, $166 \times 135 \times 20 \mathrm{~mm}$ | 10-108 | Pack: I |
| 10 bell push buttons, $185 \times 135 \times 20 \mathrm{~mm}$ | 10-110 | Pack: I |
| 12 bell push buttons, $204 \times 135 \times 20 \mathrm{~mm}$ | 10-II2 | Pack: I |
| Extension modules |  |  |
| Extension 12 bell push buttons, $128 \times 135 \times 20 \mathrm{~mm}$ | 10-112-01 | Pack: I |
| Extension 14 bell push buttons, $147 \times 135 \times 20 \mathrm{~mm}$ | 10-114-01 | Pack: I |
| Extension 16 bell push buttons, 2 rows, $166 \times 135 \times 20 \mathrm{~mm}$ | $10-116-01$ | Pack: I |
| Extension 18 bell push buttons, 2 rows, $185 \times 135 \times 20 \mathrm{~mm}$ | $10-118-01$ | Pack: I |
| Extension 20 bell push buttons, 2 rows, 204x $135 \times 20 \mathrm{~mm}$ | 10-120-01 | Pack: I |

## Accessories

Cover cap, $83 \times 139 \times 60 \mathrm{~mm}$

- bell push buttons can be used for switching the light
- electronic parts protected against water and corrosion
- removable memory (EEPROM) 10-876 Pack: I




## Flush mounting external unit with I row of bell push buttons

This ultra-flat flush-mounting unit is finished with a 3 mm -thick aluminium front plate. This external unit is equipped with a vandal-resistant, 5 mm -thick, Plexiglas nameplate. The maintenance-free, gold-plated push button contacts are extremely durable. Thanks to the 2 -wire technology, an existing bell push button can easily be replaced by an external unit. Includes flush-mounting box.

- adjustable speaker and microphone
- every button has a memory for 2 serial numbers
- confirmation tone for the visitor
- bell push buttons can be used for switching the light
- electronic parts protected against water and corrosion
- removable memory (EEPROM)

For the dimensions of the flush-mounting box, see technical information.

## Complete units

| I bell push button, 208x\|50x3mm | 10-201 | Pack: I |
| :--- | :--- | :--- |
| 2 bell push buttons, 208×150x3mm | $\mathbf{1 0 - 2 0 2}$ | Pack: I |
| 3 bell push buttons, 208×150x3mm | $\mathbf{1 0 - 2 0 3}$ | Pack: I |
| 4 bell push buttons, $208 \times 150 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 0 4}$ | Pack: I |
| 6 bell push buttons, $252 \times 150 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 0 6}$ | Pack: I |
| 8 bell push buttons, $296 \times 150 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 0 8}$ | Pack: I |
| 10 bell push buttons, $340 \times 150 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 1 0}$ | Pack: I |

## Flush mounting external unit with 2 rows of bell push buttons

This ultra-flat flush-mounting unit for door intercom is finished with a 3 mm -thick, aluminium front plate. This external unit is equipped with vandal-resistant, 5 mm thick, Plexiglas nameplates. The maintenance-free, gold-plated push button contacts are extremely durable. The panel has 2 columns of bell push buttons. Includes flush-mounting box.

- adjustable speaker and microphone
- every button has a memory for 2 serial numbers
- confirmation tone for the visitor
- bell push buttons can be used for switching the light


## Complete units

| 12 bell push buttons, $252 \times 274 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 1 2}$ | Pack: I |
| :--- | :--- | :--- |
| 14 bell push buttons, $274 \times 274 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 1 4}$ | Pack: I |
| 16 bell push buttons, $296 \times 274 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 1 6}$ | Pack: I |
| 18 bell push buttons, $318 \times 274 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 1 8}$ | Pack: I |
| 20 bell push buttons, $340 \times 274 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 2 0}$ | Pack: I |



## Flush mounting external unit with 3 rows of bell push buttons

This ultra-flat flush-mounting unit for door intercoms is finished with a 3 mm -thick, aluminium front plate. The external unit is equipped with vandal-resistant, 5 mm -thick, Plexiglas nameplates. The maintenance-free, gold-plated push button contacts are extremely durable. The panel has 3 columns of bell push buttons. Includes flush-mounting box.

- adjustable speaker and microphone
- every button has a memory for 2 serial numbers
- confirmation tone for the visitor
- bell push buttons can be used for switching the light


## Complete units

| 24 bell push buttons, $296 \times 398 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 2 4}$ | Pack: I |
| :--- | :--- | :--- |
| 27 bell push buttons, $318 \times 398 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 2 7}$ | Pack: I |
| 30 bell push buttons, $340 \times 398 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 2 3 0}$ | Pack: I |



## Flush mounting external unit with 7-digit display

This aluminium external unit with 3 mm -thick front plate is equipped with a microphone, speaker, numeric keyboard and a 7 -segment display. The 7 -segment display indicates the entered house number and the programming steps. The door open relay is controlled by entering a PIN code. Suitable for installations containing up to 200 housing units. For larger installations, contact Niko.

- dimensions, front plate: $320 \mathrm{~mm} \times 150 \mathrm{~mm} \times 3 \mathrm{~mm}$
- dimensions, flush-mounting frame: $296 \mathrm{~mm} \times 130 \mathrm{~mm} \times 50 \mathrm{~mm}$
- adjustable speaker and microphone
- every button has a memory for 2 serial numbers
- electronic parts protected against water and corrosion
- removable memory (EEPROM)

For the dimensions of the flush-mounting box, see technical information.

## Complete units

Flush mounting external unit with 7-digit display
Pack: I

## Flush mounting external unit with LCD display

This aluminium external unit with 3mm-thick front plate is equipped with a microphone, loudspeaker, numeric keyboard and a 2-line LCD display. The door open relay can be controlled by entering a PIN code. The LCD display indicates the house number and the name of the occupant. You can look up and call the occupant by means of an alphabetic name list. Suitable for installations of up to 200 housing units. For larger installations, contact Niko.

- front plate: $320 \mathrm{~mm} \times 150 \mathrm{~mm} \times 3 \mathrm{~mm}$
- flush-mounting frame: $296 \mathrm{~mm} \times 130 \mathrm{~mm} \times 50 \mathrm{~mm}$
- adjustable speaker and microphone
- every button has a memory for 2 serial numbers
- confirmation tone for the visitor
- electronic parts protected against water and corrosion
- removable memory (EEPROM)

Complete units
Flush mounting external unit with LCD display
10-282
Pack: I

## Accessories

PC interface for programming
10-855
Pack: I

## Flush mounting door speaker

Built-in door speaker for installation in existing panels or panels of your own design. In addition to the 16 doorbell push button connections, the module can be expanded with one or more (I0-88I-0I) expansion modules (max. 6).

- dimensions: $112 \times 80 \times 34 \mathrm{~mm}$
- adjustable speaker and microphone volume
- microphone can be moved 25 cm
- terminal connections for 16 pushbutton contacts
- each button has a memory for two serial numbers
- doorbell buttons can also be used for switching lights on and off
- can be connected to an expansion module
- check tone for the visitor
- removable memory (EEPROM)

Expansion module for installation into own or existing panels for door intercom and videophone. To be connected to built-in speaker 10-880-01.

- dimensions: $104 \times 80 \times 34 \mathrm{~mm}$
- terminal connections for 32 pushbutton contacts
- each button has a memory for two serial numbers
- can be connected $4 x$ in cascade
- connection with 10-880-01 via a plug already provided
- removable memory (EEPROM)


## Complete units

| Door loudspeaker | $\mathbf{1 0 - 8 8 0 - 0 1}$ | Pack: I |
| :--- | :--- | :--- |
| Extension for door loudspeaker | $\mathbf{1 0 - 8 8 1 - 0 1}$ | Pack: I |



Surface mounting telephone
This surface-mounting telephone is based on 2-wire technology. equipped with the following functions:

- tone distinction between apartment door and front door calls
- busy signal and call indicated with LEDs
- 6 adjustable tones
- automatic conversation interruption after 60s
- door open key (optional: light switch function)
- volume control with slide switch
- colour: white
- dimensions: $212 \times 94 \times 65 \mathrm{~mm}$

Base for table mounting of the surface-mounting telephone $10-501$.

- colour: aluminium
- incl. 3m cable with RJI2 connector
- dimensions: $185 \times 67 \times 26 \mathrm{~mm}$


## Complete units

| Surface-mounting telephone | $\mathbf{1 0 - 5 0 1}$ | Pack: $\mathbf{I}$ |
| :--- | :---: | :---: |
| Accessories |  |  |
| Base for table mounting | $\mathbf{1 0 - 5 0 9}$ | Pack: I |



## Handsfree internal audio unit

This compact internal audio unit is standard equipped with the following functions:

- communicate with a visitor
- different ring tones for apartment door, main door and internal calls
- door open key and light switch key
- adjust volume
- switch off ring tone
- indicate busy signal and call signal with LEDs

The internal audio unit is equipped with 5 function keys and a volume adjuster. One of the following functions can be assigned to each free function key:

- transmit control function for relay 10-831
- parallel call
- internal call
- ring-and-come-in function
- call diversion command

The communication with the visitor is handsfree.

- material of the front: plastic - number of keys: 5
- material of the mounting plate: galvanised metal
- mounting: surface-mounting
- colour: white
- mounting on flush-mounting box possible
- dimensions: $148 \times 98 \times 16 \mathrm{~mm}$


## Complete units

Handsfree internal audio unit

## Compact surface mounting telephone

Compact surface-mounting telephone equipped with the following functions:

- different ring tones for calls at apartment door, front door or internal call
- choice of I3 different tones
- door open key and light switch key
- volume control for the speaker
- speaker deactivation function
- LED call indication
- additional function key for ring-and-come-in function, internal call, etc.
- colour: white (I0-5II) or silver (10-5II-50)
- dimensions: 201x98x42mm

Base for table mounting of the compact surface-mounting telephone I0-5II.

- colour: aluminium
- incl. 3m cable with RJI2 connector
- dimensions: $128 \times 92 \times 27 \mathrm{~mm}$


## Complete units

| Compact surface mounting telephone, white | 10-5II | Pack: I |
| :--- | :--- | :--- |
| Compact surface mounting telephone, silver | 10-5II-50 | Pack: I |
| Accessories |  |  |
| Base for table mounting | $\mathbf{1 0 - 5 1 9}$ | Pack: I |




## Surface mounting external unit $\mathbf{2 0 m m}$ with I row of bell push buttons and colour camera

This solid surface-mounting unit is equipped with a 7 mm -thick finish and has a surface-mounting height of only 20 mm . The external unit is equipped with a 5 mm thick, vandal-resistant, Plexiglas nameplate and infrared LEDs for a better visibility at night. The maintenance-free, gold-plated bell push button contacts are extremely durable. Equipped with a built-in colour camera. Due to its extra large nameplates, this external unit is particularly suited for professional purposes. With the extension modules, this external unit can be extended up to a maximum of 22 bell push buttons. Extension module in the same finish as the external units. Given that the modules are to be opened at the bottom, they should be mounted laterally on the external unit.

- adjustable speaker and microphone
- every push button has a memory for 2 serial numbers
- confirmation tone for the visitor
- electronic parts protected against water and corrosion
- removable memory (EEPROM)

Complete units

| I bell push button, $204 \times 135 \times 20 \mathrm{~mm}$ | $\mathbf{1 0 - 4 0 1}$ | Pack: I |
| :--- | :---: | :--- |
| 2 bell push buttons, $204 \times 135 \times 20 \mathrm{~mm}$ | $\mathbf{1 0 - 4 0 2}$ | Pack: I |
| 3 bell push buttons, $242 \times 135 \times 20 \mathrm{~mm}$ | $\mathbf{1 0 - 4 0 3}$ | Pack: I |
| Extension modules |  |  |
| Extension 4 bell push buttons, $166 \times 135 \times 20 \mathrm{~mm}$ | $\mathbf{1 0 - 1 7 2 - 0 1}$ | Pack: I |
| Extension 5 bell push buttons, $204 \times 135 \times 20 \mathrm{~mm}$ | $\mathbf{1 0 - 1 7 3 - 0 1}$ | Pack: I |
| Accessories |  |  |
| Cover cap, $83 \times 139 \times 60 \mathrm{~mm}$ | $\mathbf{1 0 - 8 7 6}$ | Pack: I |

Surface mounting external unit 20 mm with 2 rows of bell push buttons and colour camera
This solid surface-mounting unit is made of 7 mm -thick aluminium and has a surface-mounting height of only 20 mm . The external unit is equipped with a 5 mm -thick, vandal-resistant, Plexiglas nameplate and infrared LEDs for a better visibility at night. The maintenance-free, gold-plated bell push button contacts are extremely durable. Equipped with a double column of bell push buttons, suitable for large housing units, and a built-in colour camera. With the extension modules, this external unit can be extended up to a maximum of 88 bell push buttons. Extension module in the same finish as the external units. Given that the modules are to be opened at the bottom, they should be mounted laterally on the external unit.

- adjustable speaker and microphone
- every push button has a memory for 2 serial numbers
- confirmation tone for the visitor
- electronic parts protected against water and corrosion
- removable memory (EEPROM)


## Complete units

| 4 bell push buttons, $166 \times 135 \times 20 \mathrm{~mm}$ | 10-404 | Pack: I |
| :---: | :---: | :---: |
| 6 bell push buttons, $185 \times 135 \times 20 \mathrm{~mm}$ | 10-406 | Pack: I |
| 8 bell push buttons, $204 \times 135 \times 20 \mathrm{~mm}$ | 10-408 | Pack: I |
| 10 bell push buttons, $223 \times 135 \times 20 \mathrm{~mm}$ | 10-410 | Pack: I |
| 12 bell push buttons, $242 \times 135 \times 20 \mathrm{~mm}$ | 10-412 | Pack: I |
| 16 bell push buttons, $280 \times 135 \times 20 \mathrm{~mm}$ | 10-416 | Pack: I |
| Extension modules |  |  |
| Extension 16 bell push buttons, 2 rows, $166 \times 135 \times 20 \mathrm{~mm}$ | 10-116-01 | Pack: I |
| Extension 18 bell push buttons, 2 rows, $185 \times 135 \times 20 \mathrm{~mm}$ | 10-118-01 | Pack: I |
| Extension 20 bell push buttons, 2 rows, $204 \times 135 \times 20 \mathrm{~mm}$ | 10-120-01 | Pack: I |
| Accessories |  |  |
| Cover cap, 83x139x60mm | 10-876 | Pack: I |



## Flush mounting external unit with I row of bell push buttons and colour camera

This ultra-flat flush-mounting external unit with colour camera is finished with a 3 mm -thick aluminium front plate. This external unit is provided with a vandalresistant, 5 mm -thick, Plexiglas name plate. The maintenance-free, gold-plated push button contacts are extremely durable. Includes flush-mounting box.

- adjustable speaker and microphone
- every button has a memory for 2 serial numbers

Camera data:

- CCD sensor SONY Super HAD
- electronic parts protected against water and corrosion
- lens: F2.0, focus 3.6 mm
- 420 lines horizontal
- light sensitivity: 0.2lux
- video output: IVpp, symmetrical


## Complete units

| I bell push button, $252 \times 150 \times 3 \mathrm{~mm}$ | $10-301$ | Pack: I |
| :--- | :--- | :--- |
| 2 bell push buttons, $252 \times 150 \times 3 \mathrm{~mm}$ | $10-302$ | Pack: I |
| 3 bell push buttons, $252 \times 150 \times 3 \mathrm{~mm}$ | $10-303$ | Pack: I |
| 4 bell push buttons, $252 \times 150 \times 3 \mathrm{~mm}$ | $10-304$ | Pack: I |
| 6 bell push buttons, $296 \times 150 \times 3 \mathrm{~mm}$ | $10-306$ | Pack: I |
| 8 bell push buttons, $340 \times 150 \times 3 \mathrm{~mm}$ | $10-308$ | Pack: 1 |

## Flush mounting external unit with 2 rows of bell push buttons and colour camera

This ultra-flat, aluminium flush-mounting external unit with colour camera is equipped with a vandal-resistant, 5 mm -thick, Plexiglas name plate. The maintenancefree, gold-plated push button contacts are extremely durable. The panel has 2 columns of bell push buttons. Includes flush-mounting box.

- adjustable speaker and microphone
- every button has a memory for 2 serial numbers

Camera data:

- confirmation tone for the visitor
- CCD sensor SONY Super HAD
- electronic parts protected against water and corrosion
- lens: F 2.0, focus 3.6 mm
- removable memory (EEPROM)
- 420 lines horizontal
- light sensitivity: 0.2lux
- video output: IVpp, symmetrical

For the dimensions of the flush-mounting box, see technical information.
Complete units

| 10 bell push buttons, $274 \times 274 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 3 1 0}$ | Pack: $I$ |
| :--- | :--- | :--- |
| 12 bell push buttons, $296 \times 274 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 3 1 2}$ | Pack: $I$ |
| 14 bell push buttons, $318 \times 274 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 3 1 4}$ | Pack: $I$ |
| 16 bell push buttons, $340 \times 274 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 3 1 6}$ | Pack: $I$ |

## Flush mounting external unit with 3 rows of bell push buttons and colour camera

Ultra-flat, aluminium flush-mounting external unit with colour camera is equipped with a vandal-resistant, 5 mm -thick, Plexiglas name plate. The maintenance-free, gold-plated push button contacts are extremely durable. The panel has 3 columns with bell push buttons. Includes flush-mounting box.

- adjustable speaker and microphone
- every button has a memory for 2 serial numbers

Camera data:

- confirmation tone for the visitor
- CCD sensor SONY Super HAD
- electronic parts protected against water and corrosion
- lens: F 2.0, focus 3.6mm
- removable memory (EEPROM)
- 420 lines horizontal
- light sensitivity: 0.2lux
- video output: IVpp, symmetrical

For the dimensions of the flush-mounting box, see technical information.
Complete units

| 18 bell push buttons, $296 \times 398 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 3 1 8}$ | Pack: 1 |
| :--- | :--- | :--- |
| 21 bell push buttons, $318 \times 398 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 3 2 1}$ | Pack: 1 |
| 24 bell push buttons, $340 \times 398 \times 3 \mathrm{~mm}$ | $\mathbf{1 0 - 3 2 4}$ | Pack: 1 |

## Flush mounting camera module

Flush-mounting camera module for flush mounting in existing panels or panels of your own design. The camera module can be used in combination with the flushmounting door speaker (I0-880-01) and extension module (I0-881-01).
Specifications of the camera:

- image width: $3.6 \mathrm{~mm}\left(70^{\circ}\right.$ horizontal, $50^{\circ}$ vertical)
- Sony Super HAD CCD sensor
- horizontal resolution: 420 video lines
- light sensitivity: 0.Ilux at F2.0


Complete units

| Flush mounting camera module | 10-496 | Pack: I |
| :--- | :---: | :---: |
| Accessories |  |  |
| Flush surround frame aluminium | $\mathbf{1 0 - 8 9 6}$ | Pack: I |


#### Abstract

Flush mounting external unit with LCD display I28xI28 pixels and colour camera This flush-mounting external unit with 3 mm -thick aluminium front plate is equipped with a microphone, a speaker, a scroll wheel, an LCD display, I28xI28 pixels, and built-in colour camera. On the LCD display, both the house number and the name of the occupant are displayed. With the scroll wheel, you can run through the menu and retrieve the desired occupant via an alphabetical name list. Programming by means of the supplied programming tool. This external unit is suitable for 200 housing units. For larger installations, please contact Niko.


## Available on request. Contact Niko for more information and project support.

- dimensions, front plate: $670 \mathrm{~mm} \times 200 \mathrm{~mm} \times 3 \mathrm{~mm}$
- dimensions, flush-mounting frame: $650 \mathrm{~mm} \times 180 \mathrm{~mm} \times 50 \mathrm{~mm}$

Camera data:

- adjustable speaker and microphone
- CCD sensor SONY Super HAD
- every button has a memory for 2 serial numbers
- lens: F 2.0, focus 3.6 mm
- confirmation tone for the visitor
- 420 lines horizontal
- electronic parts protected against water and corrosion
- light sensitivity: 0.2lux
- removable memory (EEPROM)
- video output: IVpp, symmetrical


## Complete units

| Flush mounting external unit with LCD display | $\mathbf{1 0 - 3 8 4}$ | Pack: $I$ |
| :--- | :---: | :---: |
| Parts |  |  |
| PC interface for programming | $\mathbf{1 0 - 8 5 5}$ | Pack: I |

## Flush mounting external unit with 7-digit display with colour camera

This external unit is equipped with a 3 mm -thick aluminium front plate and a microphone, a speaker, numeric keyboard, 7 -segment display and built-in colour camera module. The 7 -segment display displays the house number entered and the programming steps to be followed. The door opener relay is controlled by inserting a PIN code. For this purpose, relay $10-835$ or $10-836$ can be used. Suitable for installations with up to 200 housing units. For larger installations, contact Niko.

- dimensions, front plate: $425 \mathrm{~mm} \times 150 \mathrm{~mm} \times 3 \mathrm{~mm}$
- dimensions, flush-mounting frame: $401 \mathrm{~mm} \times 130 \mathrm{~mm} \times 50 \mathrm{~mm}$
- adjustable speaker and microphone
- every button has a memory for 2 serial numbers
- confirmation tone for the visitor
- electronic parts protected against water and corrosion
- removable memory (EEPROM)

Camera data:

- CCD sensor SONY Super HAD
- lens: F 2.0, focus 3.6 mm
- 420 lines horizontal
- light sensitivity: 0.2lux
- video output: IVpp, symmetrical

Complete units
$\begin{array}{ll}\text { Flush mounting external unit with 7-digit display } & \mathbf{1 0 - 3 8 0}\end{array}$

## Flush mounting external unit with LCD display and colour camera

This external unit with 3 mm -thick, aluminium front plate is equipped with a microphone, a speaker, a numerical keyboard, a 2-line LCD display and a built-in colour camera module. On the LCD display, both the house number and the name of the occupant are displayed. Via an alphabetical name list, you can call the desired occupant and you can activate the door opener via a PIN code. Programming by means of the software 10-855. This unit is suitable for a max. of 200 housing units. For larger installations, please contact Niko.

- dimensions, front plate: $425 \mathrm{~mm} \times 150 \mathrm{~mm} \times 3 \mathrm{~mm}$
- dimensions, flush-mounting frame: $401 \mathrm{~mm} \times 130 \mathrm{~mm} \times 50 \mathrm{~mm}$
- adjustable speaker and microphone

Camera data:

- every button has a memory for 2 serial numbers
- CCD sensor SONY Super HAD
- confirmation tone for the visitor
- lens: F2.0, focus 3.6 mm
- electronic parts protected against water and corrosion
- 420 lines horizontal
- light sensitivity: 0.2lux
- removable memory (EEPROM)
- video output: IVpp, symmetrical


## Complete units

| Flush mounting external unit with LCD display | $\mathbf{1 0 - 3 8 2}$ | Pack: I |
| :--- | :---: | :---: |
| Accessories |  |  |
| PC interface for programming | $\mathbf{1 0 - 8 5 5}$ | Pack: I |

External surface mounting camera
This surface-mounting camera is suitable for outdoor use and can be rotated horizontally and vertically. Suitable for rapidly changing weather conditions. This colour camera is equipped with a varifocus lens. Infrared LEDs provide a better visibility at night.

## Available until July 20II. Replaced by 10-490-02.

Specifications of the colour camera:

- Sony Super HAD CCD sensor
- horizontal resolution: 480 video lines
- varifocus f: $4-9 \mathrm{~mm}$; externally adjustable
- 16 infrared LEDs
- light sensitivity: Olux (at night with IR LEDs) up to 8m; 0.3lux (at night): black and white image; 5lux: colour image
- operating temperature: $-20-50^{\circ} \mathrm{C}$


## Complete unit

External surface mounting camera

| Outdoor surface-mounting camera with video transmitter |  |  |
| :---: | :---: | :---: |
| Surface-mounting camera for outdoor use, rotatable in horizontal and vertical direction. Suitable for rapidly changing weather conditions. This colour camera is equipped with a varifocus lens and IR LEDs for better visibility at night. <br> Video transmitter $10-498$ included and connected to the camera by 2 wires (power supply) and a coax cable. The video transmitter is supplied via the bus and transforms the camera signal into a signal that is suitable for transmission over a twisted pair in the wiring. |  |  |
| Available starting from May 2010. Replaces 10-490-01. |  |  |
| Camera: | - Input v |  |
| - Colour camera CCD Interline Transfer | - Output |  |
| - 550 lines horizontal, PAL | - Ambien |  |
| - Light sensitivity |  |  |
| o 0.3lux (colour image) | Video tran |  |
| 0 0.1lux (black/white image) | - Input in |  |
| 0 IR sensible sensor | - Output |  |
| - Varifocus $\mathrm{f}=3.3$ to I 2 mm at Fl .2 ; adjustable at installation | - Video si |  |
| - Back light compensation | - Camera |  |
| - Housing: aluminium | - Dimens |  |
| - Rotatable |  |  |
| Complete unit |  |  |
| Outdoor surface-mounting camera with video transmitter | 10-490-02 | Pack: I |

## (1) May 2010. Replaces IO-49-01.

- 550 lines horizontal, PAL

Light sensitivity

0 0.Ilux (black/white image)
IR sensible sensor

- Back light compensation
- Housing: aluminium
- Rotatable


## Handsfree internal video unit with colour display

This compact, surface-mounting, internal video unit with colour screen is standard equipped, among other things, with the following functions:

- communicate with a visitor
- different ring tones for apartment door, main door and internal calls
- door open key and light switch key
- adjust volume and image
- switch off ring tone
- activate camera images
- indicate busy signal and call signal with LEDs
- transmit control function for relay 10-831
- parallel call
- internal call

The controls consist of touch-sensitive keys and a menu which appears on the screen. The communication with the visitor is handsfree.

| - material: plastic | - number of keys: 6 |
| :--- | :--- |
| - colour: white | - menu languages: Dutch, French, German, English, Slovak |
| - dimensions: $180 \times 95 \times 20 \mathrm{~mm}$ | - mounting: surface-mounting |
| - TFT colour screen: $70 \times 52 \mathrm{~mm}$ | - mounting on flush-mounting box possible |

Complete unit
Handsfree internal video unit with colour display

## Aluminium handsfree internal video unit with colour screen

This compact, surface-mounting, internal video unit is standard equipped with the following functions:

- communicate with a visitor
- different ring tones for apartment door, main door and internal calls
- door open key and light switch key
- adjust volume and image
- switch off ring tone
- activate camera images
- indicate busy signal and call signal with LEDs

The internal video unit is equipped with 5 function keys and a menu that can be consulted via 3 navigation keys on the side of the device. One of the following functions can be assigned to each free function key:

- transmit control function for relay $10-831$
- parallel call
- internal call
- switch light on/off
- ring-and-come-in function
- call diversion command

The communication with the visitor is handsfree.

- material: aluminium and plastic
- number of keys: 8
- colour: black and aluminium
- mounting: surface-mounting
- dimensions: 104x153x19mm
- mounting on flush-mounting box possible
- TFT colour screen: $68 \times 50 \mathrm{~mm}$

Complete unit

| Aluminium handsfree internal video unit with colour screen | 10-57I Pack: I |
| :--- | :--- | :--- |

## Power supply 20

This central bus power supply for DIN rail mounting is suitable for door communication and video installations. For use as a door communication power supply, a maximum of 20 internal units ( $10-501$ and $10-5 I I$ ) or 6 internal units ( $10-520$ ) and 2 illuminated external units can be connected. For use as a bus power supply for video installations, an additional $D C$ power supply ( $10-805-01$ ) is always required for powering the monitors. The power supply is equipped with connections for the bus, a potential-free relay contact for light switching and an AC output for 8 - I2V door openers. The front is equipped with a program key, a control LED and potentiometers to adjust the activation time of the door opener and the light switch contact.

- power supply voltage: 230V~
- bus power supply: $24 \pm$ IV
- light switch contact: potential-free relay contact
- activation time of the light switch contact: 0.5 " -5 '


## Complete units

Power supply 20
10-801
Pack: I

## Power supply 100

Central power supply for door communication installations with maximum 80 internal units ( $10-501$ and $10-5 I I$ ) or 24 internal units ( $10-520$ ) and maximum 4 illuminated external units, depending on the chosen types. The power supply is equipped with connections for 32 -wire buses, I additional power supply terminal P, I potential-free relay contact for light switching and I potential-free contact for controlling the relay for the door opener. The activation time of the door opener and the light switch contact is adjustable. Equipped with a start-up control LED.

- power supply voltage: 230V~
- bus power supply: $24 \pm$ IV
- light switch contact: potential-free relay contact (max. 24V/IA)
- activation time of the light switch contact: 0.5 " -5 '
- switch contact door lock: potential-free relay contact (max. 24V/IA)
- activation time of the door opener: $0.8^{\prime \prime}-8^{\prime \prime}$
- current: max. 280 mA (3 buses together)
- dimensions: $90 \times 105 \times 70 \mathrm{~mm}$ (6U)


## Complete units

Power supply 100

> 10-802

Pack: I

## Video power supply

Video power supply for DIN rail mounting, suitable for one video system with I external unit and maximum I2 internal units. No parallel operation of monitors allowed. Extension possibilities limited to internal audio units, I external audio unit and I relay. Provided with an output contact for light switching and an AC power supply output for opening an electric door lock. The activation time of both contacts can be adjusted by means of potentiometers at the front.

- power supply voltage: 230V~
- output voltage of the door key: $8-\mathrm{I2V} \sim$
- bus power supply: $26 \pm$ IV
- light switch contact: $8-\mathrm{I2V} \sim$ (external transformer 10-819)
- activation time of the light switch contact: 0.5 " -5 '

Complete units
Video power supply $\quad$ 10-806 Pack: I

## Direct current 2.5A

This DC power supply for expanded video systems is suitable for DIN rail mounting. Is always used in combination with power supply 10-801 or 10-802.

- dimensions: $90 \mathrm{~mm} \times 140 \mathrm{~mm} \times 70 \mathrm{~mm}$ (8U)
- input: $230 \mathrm{~V} \pm 15 \%$
- output: 26 V (Imax: 2.5A)


## Complete units

Direct current $2.5 \mathrm{~A} \quad$ 10-805-01 Pack: I

## Transformer

Transformer for power supply unit of door openers.

- power supply voltage: 230V AC
- output voltage: 8V AC (2A), I2V AC (I.3A)
- housing: suitable for DIN rail mounting, 2U

Complete units



Relay for external unit
External relay for opening a lock. Suitable for flush mounting in all external units.

- dimensions: $20 \times 26 \times 6 \mathrm{~mm}$
- relay contact: 24V, 2A


## Complete units

Relay I
Pack: I

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## Flush mounting relay

This external relay for opening a lock reacts to the door open function without additional programming. In case several relay modules are used, programming is carried out by means of the service unit. Suitable for mounting in flush-mounting boxes.

- dimensions: $51 \mathrm{~mm} \times 51 \mathrm{~mm} \times 22 \mathrm{~mm}$
bus power supply: $24 \mathrm{~V} \pm \mathrm{IV}$
- potential-free relay contact: 2A


## Complete units

Flush mounting relay 2
10-836
Pack: I

## Universal flush mounting relay

This external, potential-free relay is equipped with a potential-free input contact and can be used as an N.C. or an N.O. contact. This relay is used for the connection of an additional bell or as a light switch. Suitable for mounting in flush-mounting boxes.

- dimensions: $51 \mathrm{~mm} \times 51 \mathrm{~mm} \times 22 \mathrm{~mm}$
bus power supply: $24 \mathrm{~V} \pm \mathrm{IV}$
- potential-free relay contact: 230V AC, 3A


## Complete units

Flush mounting relay universal
10-837
Pack: I

## DIN rail relay

Universal relay for DIN-rail mounting (IO-830) for connection of an additional bell, use as a light switch, etc. Equipped with a potential-free input contact. The functions of both the output contact and the input contact are freely programmable. The relay switches its output when the control function of the internal audio units ( $10-51 \mathrm{x}$ ), the video internal units or the code keyboard is used. The relay output switching time is adjustable. The input contact switches the output contact according to the pre-set time.

- potential-free relay contact: 230V, 3A
- LED indication for input and output
- potential-free input contact
- dimensions: $85 \mathrm{~mm} \times 18 \mathrm{~mm} \times 65 \mathrm{~mm}$ (IU)
- time settings for contact: 0-63s
- 3 -wire connection required (a, b, p


## Complete units

| DIN rail relay universal | $10-830$ | Pack: I |
| :--- | :--- | :--- |
| DIN-rail relay, preprogrammed | $10-831$ | Pack: I |

## Flush mounting splitter 2

Flush-mounting video splitter for splitting video signals over 2 circuits. Equipped with an active amplifier. Depending on the number of participants, more than one video splitter can be included in an installation.

- dimensions: $51 \mathrm{~mm} \times 51 \mathrm{~mm} \times 22 \mathrm{~mm}$
- max. output signal: $\mathrm{AV}_{\mathrm{pp}}$ (in case of IVpp at the input and a terminal resistor
- power consumption: $1(\mathrm{a})=0.0 \mathrm{~mA} ; 1(\mathrm{Pmax})=60 \mathrm{~mA}$
- signal gain: 0 dB to +I 2 dB (linear) of $100 \Omega$ )


## Complete units

Flush mounting splitter 2
|0-82|-0|
Pack: I

## Modular splitter 2

Video splitter for DIN rail mounting. Suitable for splitting the video signal over 2 circuits. Equipped with active amplifiers. Depending on the number of participants, more than one video splitter can be included in an installation.

- dimensions: $90 \mathrm{~mm} \times 72 \mathrm{~mm} \times 70 \mathrm{~mm}$ (4U)
- max. output signal: $4 \mathrm{~V} p p$ (in case of IVpp at the input and a terminal resistor
- power consumption: $1(\mathrm{a})=0.0 \mathrm{~mA} ; \mathrm{l}(\mathrm{Pmax})=75 \mathrm{~mA}$ of $100 \Omega$ )
- signal gain: 0 dB to +I 2 dB (linear)


## Complete units

Modular splitter 2
10-824-01
Pack: I

## Modular splitter 4

Video splitter for DIN rail mounting. Suitable for splitting the video signals over 4 circuits. Equipped with active amplifiers. Depending on the number of participants, more than one video splitter can be included in one installation.

- dimensions: $90 \mathrm{~mm} \times 105 \mathrm{~mm} \times 70 \mathrm{~mm}$ (6U)
- max. output signal: $\mathrm{AV}_{\mathrm{Vpp}}$ (in case of IVpp at the input and a terminal resistor of $100 \Omega$ )
- power consumption: $I(a)=0.0 \mathrm{~mA} ; 1(P \max )=120 \mathrm{~mA}$
- signal gain: 0 dB to +I 2 dB (linear)

Complete units
Modular splitter 4
10-822-0|
Pack: I

## Modular video switcher 4

Video distributor for DIN rail mounting. Sends the video signal from max. 4 external units or cameras to I output. Several video switchers (max. 5) can be connected in cascade for installations with more than 4 external units.

- dimensions: $90 \mathrm{~mm} \times 105 \mathrm{~mm} \times 70 \mathrm{~mm}$ (6U)
-     - power consumption: 45 mA

4 video inputs, I video output

- power supply: 26V (P wire)


## Complete units

Modular video switcher 4
10-823
Pack: I

## Flush mounting floor video switcher

This floor video switcher can select 2 video signals for I internal unit with a monitor. Per monitor, the floor video switcher can select the image of the floor external unit or the main external unit.

- dimensions: $52 \mathrm{~mm} \times 52 \mathrm{~mm} \times 23 \mathrm{~mm}$
- power consumption: $\mathrm{I}(\mathrm{a})=0.4 \mathrm{~mA} ; \mathrm{I}(\mathrm{Pmax})=9 \mathrm{~mA}$


## Complete units

Flush mounting floor video switcher
10-825
Pack: I

## Video transmitter

Video transmitter for the connection between an external camera with coax connection and the bus. Is powered via the P wire of the bus and can be used at any location.

- input impedance: $75 \Omega$
- output impedance: $100 \Omega$ symmetrical
- adjustment range video signal: - 10 dB to +4 dB
- camera power supply: 12 V ; max. 250 mA
- dimensions: $51 \mathrm{~mm} \times 51 \mathrm{~mm} \times 22 \mathrm{~mm}$


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## Complete units

## Video transmitter

10-498
Pack: I

## Video receiver

This video receiver connects a video signal to a coaxial system. li is used for displaying the image on a TV set or a video recorder, and it is powered via the $P$ wire of the bus. The receiver can be used at any location.

- input impedance: $100 \Omega$ symmetrical
- dimensions: $51 \mathrm{~mm} \times 51 \mathrm{~mm} \times 22 \mathrm{~mm}$
- output impedance: $75 \Omega$
- adjustment range video signal: - 10 dB to +4 dB

- 



| Telephone interface |
| :--- |
| Modular interface ( 6 U ) for the connection of an access control system to the telephone network via the $\mathrm{a} / \mathrm{b}$ connection of analogue and ISDN telephone exchanges. |
| Features: |
| - parallel switching of up to 64 telephone interfaces |
| - memory for 16 telephone numbers |
| - potential-free input |
| - relay output with programmable switching time |
| - control of door opener |
| - control of max. IO bus relays |
| - safety function for programming status |
| - power supply via P wire |
| - the external unit can be connected to the internal telephones |
| - dimensions: $90 \mathrm{~mm} \times 105 \mathrm{~mm} \times 70 \mathrm{~mm}$ ( 6 U$)$ |
| Complete units |
| Telephone interface |

## Service unit

```
Device which allows the programming of a complete installation by only I person. This set can connect all participants without requiring access to the housing units. Thanks to the built-in call suppression, all basic functions can be tested without disturbing the occupants. The device can also be used for analysing the installation or locating an error.
Features:
- is connected to the external unit(s) via a connection plug
- simple programming
- special functions such as programming block
- testing of the speech connections to external and internal units
- indication of bus parameters such as bus voltage, bus commands, etc.
- dimensions: \(200 \mathrm{~mm} \times 50 \mathrm{~mm} \times 35 \mathrm{~mm}\)
```


## Complete units

Service set $\quad 10-870 \quad$ Pack:l


## PC interface for programming

PC interface for programming flush-mounted external video units $10-280,10-282,10-380,10-382$ and $10-384$ with the accompanying PC software. Interface connection via USB. Bus connection via intermediate printed circuit board.

- required PC configuration: min. Windows 98SE
- USB connection: USB I.I or USB 2.0

| Complete unit |  |  |
| :--- | :--- | :--- |
| $P C$ interface for programming | $10-855$ | Pack: 1 |

## Code keyboard

This surface-mounting code keyboard is suitable for indoor and outdoor applications. Made entirely of aluminium. Maximum of 10 different user codes. Various functions can be assigned to a code, such as the bus power supply for a door opener and an external relay contact. The code keyboard can also be used as a stand-alone device. In combination with power supply 10-801, the code keyboard can directly control a door lock. The code keyboard is illuminated with 4 blue LEDs.

- dimensions: $|13 \times 88 x| 2 \mathrm{~mm}$
- stand-alone output: 24V DC (for control of a 24V DC relay, such as 10-835)
- power consumption: $1(\mathrm{a})=0.4 \mathrm{~mA}, I(\operatorname{Pmax})=59 \mathrm{~mA}$
- stand-alone: 24V DC, 60 mA


## Complete units

Code keyboard
10-901
Pack: I

## Surface-mounting access key reader

This surface-mounting reader for electronic keys is suitable for indoor and outdoor applications. The housing is vandal-resistant, made of aluminium and equipped with an illuminated, 4mm-thick Plexiglas nameplate. In decentralised mode, up to 89 electronic keys can be manually programmed; with the Access Key Programmer software, up to a maximum of 250 keys. In centralised mode (with a PC permanently on-site), up to 2000 electronic keys can be managed thanks to the Access Key Controller software. Various functions can be linked to a key, e.g. switching the door opener of the bus power supply, switching an external relay contact, etc. The device is always part of an installation with a 10-801, 10-802 or 10-806 system power supply.

Available on request. Contact Niko for more information and project support.

| - dimensions: $153 \times 104 \times 16 \mathrm{~mm}$ <br> - NO contact <br> - 3 -wire connection required | - electronic parts protected against water and corrosion <br> - power consumption: $I(\mathrm{a})=0.4 \mathrm{~mA}, I(P)=4 \mathrm{~mA}, I(P \max )=60 \mathrm{~mA}$ |
| :---: | :---: |
| Complete units |  |
| Surface-mounting access key reader | 10-902 Pack: 1 |

## Flush-mounting access key reader

This flush-mounting reader for electronic keys is suitable for indoor and outdoor applications. The housing is vandal-resistant and made of 8mm-thick, black Plexiglas. In decentralised mode, up to 89 electronic keys can be manually programmed; with the Access Key Programmer software, up to a max. of 250 keys. In centralised mode (with a PC permanently on-site), up to 2000 electronic keys can be managed thanks to the Access Key Controller software. Various functions can be linked to a key, e.g. switching the door opener of the bus power supply, switching an external relay contact, etc. The device is always part of an installation with a $10-801,10-802$ or 10-806 system power supply. The module can be flush mounted in an external unit, type I0-384.

## Available on request. Contact Niko for more information and project support.

- front dimensions to be flush mounted: $82 \times 82 \times 3 \mathrm{~mm}$
- electronic parts protected against water and corrosion
- power consumption: $I(\mathrm{a})=0.4 \mathrm{~mA}, \mathrm{I}(\mathrm{P})=4 \mathrm{~mA}, \mathrm{I}(\mathrm{Pmax})=60 \mathrm{~mA}$
- NO and NC contacts
- 3 -wire connection required


## Complete units

Flush-mounting access key reader
10-903
Pack: I

## Set of 50 access keys

These electronic keys are suitable to be used with type 10-902 and 10-903 readers. Each key is delivered with a barcode that can be scanned, which simplifies the input into the software.

## Available on request. Contact Niko for more information and project support.

- packaged per 50
- integrated in a black holder

Complete units
Set of 50 access keys
10-910-50
Pack: I

## Bus interface for access key system

This bus interface makes the link between a permanently on-site PC and the bus system. It guarantees the highest operational reliability thanks to the integrated watchdog function. This interface can only be used with the Access Key Controller software and is permanently present in the installation.

## Available on request. Contact Niko for more information and project support.

- dimensions: II4x90x32mm
- connection with the PC via serial cable (RS-232)
- connection with the system bus via RJ45 patch cable


## Complete units

Bus interface for access key system


[^0]
## Bell push buttons

The Niko bell push button is constructed of the highest quality materials, such as injection-moulded aluminium and black plastic. It is resistant to corrosion and weather influences. The name plate is large and well-illuminated. The push button is equipped with top quality contacts: a reed contact, consisting of 2 rod contacts in a sealed, glass housing. The lamp must be removed when using an electronic gong.

- dimensions: $95 \mathrm{~mm} \times 54 \mathrm{~mm} \times 19 \mathrm{~mm}$


## Complete units

| I2V ~ IA supplied as complete set with lamp (black/aluminium) | 05-540 | Pack: 10 |
| :---: | :---: | :---: |
| I2V $\sim$ IA supplied as complete set with lamp (white/white) | 05-540-13 | Pack: 10 |
| I2V ~ IA supplied as complete set with lamp (black/white) | 05-540-23 | Pack: 10 |
| $\underline{\text { I2V } ~ I ~ I A ~ s u p p l i e d ~ a s ~ c o m p l e t e ~ s e t ~ w i t h ~ l a m p ~(w h i t e / a l u m i n i u m) ~}$ | 05-540-33 | Pack: 10 |
| 6V $\sim$ IA supplied as complete set with lamp (black/aluminium) | 05-540-06 | Pack: 10 |
| Accessories |  |  |
| Lamp for bell push button 6V $\sim$ IA | 05-501-06 | Pack: 10 |
| Lamp for bell push button I2V ~ IA | 05-501-12 | Pack: 10 |



## Semaphor set

The Semaphor controls access to an office by means of sound and LED signalling. The Semaphor basic set consists of a bell push button, a main internal unit and 15 m of wire.

- at the door: a bell push button to be operated by the visitor (includes symbols and texts in several languages)
- in the office: a main internal unit with 4 keys: green (IN), orange (WAIT) and red (OCCUPIED)
- N.O. push button with potential-free contacts, max. $24 \mathrm{~V} \sim=100 \mathrm{~mA}$; for example, can control an electrical door lock using a relay or a buzzer in the waiting room.
The Semaphor operates at low voltage I2V . The bell push button is mounted outside of the office near the door. The main internal unit is placed in the office within arm's reach. You can connect a sub internal unit to the main unit that operates in the same way (e.g., for a manager's and secretary's offices or for offices with 2 rooms). A max. of 2 bell push buttons can be connected to the main internal unit The sub internal unit and the additional bell push button can be ordered separately.

SET

- bell push button: steel-grey plastic with black push button. Symbols and texts supplied in several languages. Mounted directly on the wall by means of screws (flush-mounting box not required).
- main internal unit: table model in matte black plastic with decorative band in anodized aluminium
- 15 m wire
- dimensions bell push button: $120 \mathrm{~mm} \times 80 \mathrm{~mm} \times 16 \mathrm{~mm}$
- dimensions internal unit: $135 \mathrm{~mm} \times 90 \mathrm{~mm} \times 35 \mathrm{~mm}$


## Complete unit

Semaphor set 24-445-16 Pack: I

## Secondary internal unit



Sub internal unit can only be used as an extension of the main internal unit. It has a matte black plastic finish with a decorative strip in anodized aluminium.


## Complete unit

Secondary internal unit
04-446-10
Pack: I

## Bell push button

A max. of 2 bell push buttons can be connected to the main internal unit. This additional bell push button can be ordered separately and is finished in steel grey plastic with a black push button.

Complete unit
Bell push button
24-445
Pack: I


## Mains supply

If no I2V ~ line is available in the office, you can use this net power supply (available separately). This net power supply is connected between the internal unit and a 230 V contact outlet.

## Complete unit

Mains supply $\quad$ 04-448 Pack: I

## ACCESS CONTROL - AUDIO DOOR COMMUNICATION

The procedure for composing an intercom system is described on the following pages. The intercom and videophone systems are completely compatible. The functions and devices described in this section can therefore also be used in combination with the videophone system.
Check also the sections with general information on the Niko Access Control system, for example, programming and the connection of a floor bell push button, a lighting circuit, the telephone interface, the code keyboard, etc.

CHOICE OF THE EXTERNAL UNIT

All external units are made of aluminium and are suitable for outdoor mounting. Depending on the size of the installation, you can choose a unit from the following list:

| external unit | max. \# <br> bell push buttons |
| :--- | :---: |
| Surface mounting, l6mm mounting height, ultra compact | 8 |
| Surface mounting, 20mm mounting height, large name plate | 23 |
| Flush mounting, 3mm front plate, 40mm mounting depth | 30 |
| Surface mounting, 20mm mounting height, double row of bell push buttons | 92 |
| Flush mounting in door panels (post box systems) | 208 |
| Flush mounting, 3mm front plate, keyboard with display | 200 |
| contact Niko | $>180$ |

## CHOICE OF THE INTERNAL UNIT

Depending on the desired function and design, you can choose a surface mounting internal unit from the following list

| Functions | $\begin{gathered} \prod_{8} \\ 10-501 \end{gathered}$ |  | $10-512$ |
| :---: | :---: | :---: | :---: |
| door open key/optional light | X | X | X |
| light key |  | X | X |
| fre function key(s) |  | X | X |
| call can be switched off | X | X | X |
| call volume adjustable | X | X | X |
| master-slave programming | X | X | X |
| control function |  | X* | X |
| ring-and-come-in function |  | X* | X |
| reroute function |  | X* | X |
| internal call |  | X* | X |
| adjustable ring tones | $\chi$ | X | X |
| can be used for table mounting | X | X |  |

* only I of the 4 functions can be programmed on the free function keys.


## CHOICE OF THE CABLING

You can cable the audio door communication system as you wish. You do not have to maintain a strict topology.
2-wire-cabling: for smaller installations. You can then simultaneously call 2 internal units.
3-wire-cabling: for larger installations (see overview). The extra wire is used for an extra power supply. You can then call four internal units simultaneously.
a \& b: This pair forms the BUS. This pair transmits the communication (speech) and the control commands. This pair will suffice for a two-wire installation. Between a and byou should be able to measure 24V DC ( $b=$ mass $)$.
$\mathbf{P}$ : $\quad$ This wire provides for an extra power supply in a three-wire installation. Two-wire and three-wire cabling can both be used in the same system. Between $P$ and $b$ you should be able to measure $26 \mathrm{~V} D(\mathrm{~b}=$ mass $)$.


Which cable type do you use best?
The diameter of the wires determines the max. distance that can be covered. The larger the diameter, the bigger the distance between the power supply and the farthest internal or external unit. In the table below, you find an overview of the max. distance (from power supply to internal or external unit) per cable type. You can double the max. distance by taking 2 pairs together.

| diameter | $0,5 \mathrm{~mm}$ <br> (e.g. UTP cat. 5E) | $0,6 \mathrm{~mm}$ <br> (e.g. TPVF) | $0,8 \mathrm{~mm}$ <br> (e.g. SVV, TVVF, JYSTY...) |
| :--- | :---: | :---: | :---: |
| max. distance | 100 m | 150 m | 250 m |

For covering larger distances, please contact the Niko Customer Service.

## MOUNTING INSTRUCTIONS EXTERNAL UNITS

Mount the speaker part of the external unit at 140 to 150 cm height.

ACCESSORIES FOR DOOR INTERCOM INSTALLATIONS WITH ONE EXTERNAL UNIT AND ONE INTERNAL UNIT PER BELL PUSH BUTTON
Accessories for installation with internal unit type 10-501 or 10-5II:

| external unit * | System components |  |  | Internal unit | Wiring ** |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| \# push buttons |  |  |  | \# |  |
| I | I |  |  | I | two-wire (a \& b) |
| 2 | I |  |  | 2 |  |
| 3 | 1 |  |  | 3 | " |
| 4 | I |  |  | 4 | " |
| 6 | 1 |  |  | 6 | " |
| 8 | 1 |  |  | 8 | " |
| 10 | I |  |  | 10 | " |
| 12 | 1 |  |  | 12 | " |
| 16 | I |  |  | 16 | " |
| 20 | I |  |  | 20 | " |
| 24 |  | 1 |  | 24 | " |
| 30 |  | 1 |  | 30 | " |
| 40 |  | 1 |  | 40 | " |
| 50 |  | 1 |  | 50 | " |
| 60 |  | 1 |  | 60 | " |
| 70 |  | 1 |  | 70 | three-wire ( $\mathrm{a}, \mathrm{b}$ \& P) |
| 90 |  | 1 | I | 90 | " |
| >90 | act Niko for |  |  |  |  |

Accessories for installation with internal unit type 10-520:

| External unit * | System components |  |  | Internal unit | Wiring ** |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| \# push buttons |  |  |  | \# |  |
| 1 | I |  |  | I | two-wire (a \& b) |
| 2 | I |  |  | 2 | " |
| 3 | I |  |  | 3 | " |
| 4 | 1 |  |  | 4 | " |
| 6 | 1 |  |  | 6 | " |
| 8 |  | I |  | 8 | " |
| 10 |  | I |  | 10 | " |
| 12 |  | 1 |  | 12 | " |
| 16 |  | I |  | 16 | " |
| 20 |  | 1 |  | 20 | " |
| 24 |  | I |  | 24 | " |
| 30 | 1 |  | 1 | 30 | three-wire ( $\mathrm{a}, \mathrm{b}$ \& P ) |
| 40 |  |  | 1 | 40 | " |
| 50 |  |  | I | 50 | " |
| 60 |  | 1 | 1 | 60 | " |
| $>60$ | tact Niko for |  |  |  |  |

* Remarks related to the external unit:
- When using the flush-mounting external units with a 7 -digit or an LCD screen, the solution with power supply $10-802$ in combination with $10-805-01$ should always be used.
- A maximum of two external units can be connected to power supply 10-801, and a maximum of four external units can be connected to power supply 10-802.
- If you have more than four external units, then use the combination of power supplies 10-802 and 10-805-01.
- An extension module is considered an extra external unit.
- If you have several door stations, then use one relay 10-835 per external unit.
** When using two-wire cabling, a maximum of two internal units can be called at one time. With three-wire cabling, this will be four units.


## DIMENSIONS FLUSH MOUNTING BOXES

| $10-201$ | $159 \times 126 \times 40 \mathrm{~mm}$ |
| :--- | :--- |
| $10-202$ | $159 \times 126 \times 40 \mathrm{~mm}$ |
| $10-203$ | $159 \times 126 \times 40 \mathrm{~mm}$ |
| $10-204$ | $159 \times 126 \times 40 \mathrm{~mm}$ |
| $10-206$ | $203 \times 126 \times 40 \mathrm{~mm}$ |
| $10-208$ | $247 \times 126 \times 40 \mathrm{~mm}$ |
| $10-210$ | $291 \times 126 \times 40 \mathrm{~mm}$ |
| $10-212$ | $203 \times 250 \times 40 \mathrm{~mm}$ |
| $10-214$ | $225 \times 250 \times 40 \mathrm{~mm}$ |
| $10-216$ | $247 \times 250 \times 40 \mathrm{~mm}$ |
| $10-218$ | $269 \times 250 \times 40 \mathrm{~mm}$ |
| $10-220$ | $291 \times 250 \times 40 \mathrm{~mm}$ |
| $10-224$ | $247 \times 374 \times 40 \mathrm{~mm}$ |
| $10-227$ | $291 \times 374 \times 40 \mathrm{~mm}$ |
| $10-230$ | $291 \times 374 \times 40 \mathrm{~mm}$ |

AUDIO DOOR COMMUNICATION I EXT. ON I INT. UNIT


AUDIO DOOR COMMUNICATION I EXT. ON 20 INT. UNITS


## AUDIO DOOR COMMUNICATION > 4 EXT. ON I8O INT. UNITS



## ACCESS CONTROL - VIDEO DOOR COMMUNICATION

The procedure for composing a videophone system is described on the following pages. The intercom and videophone systems are completely compatible. The functions and devices described in this section can therefore also be used in combination with the intercom system.
Check also the sections with general information on the Niko Access Control system, for example, programming and the connection of a floor bell push button, a lighting circuit, the telephone interface, the code keyboard, etc.

## CHOICE OF THE EXTERNAL UNIT

All external video units are equipped with a colour camera. You can connect an internal unit with a black-and-white screen or a colour screen to an external unit.
Depending on the size of the installation, you can make your choice using the table below.

| external unit | max. \# <br> bell push buttons |
| :--- | :---: |
| surface mounting, 20mm mounting height, I row of bell push buttons | 22 |
| flush mounting | 24 |
| surface mounting, 20mm mounting height, double row of bell push buttons | 88 |
| flush mounting in door panels (post box systems) | 208 |
| flush mounting, with 7-digit or LCD display | 200 |
| flush mounting, with LCD display and scroll wheel | $>200$ |
| contact Niko | $>180$ |

## CHOICE OF THE POWER SUPPLY

The internal and external units have to be provided with a power supply. The choice of the power supply only depends on the number and type of internal and external unit(s). In the table below, you find the max. configuration per power supply.

| power supply | Max. \# internal units video | Max. \# external units video | Max. \# internal units audio |
| :--- | :---: | :---: | :---: |
| $10-806$ | $I 2^{*}$ (no parallel function) | I | I |
| $10-801$ \& I0-805-01 | $>3$ | $>\mathrm{I}$ | $>\mathrm{I}$ |

* Maximum of six parallel calls if two internal video units have been installed in parallel.


## Note:

- When using the flush mounting external units with 7-digit or LCD display, always use ref. 10-802 in combination with ref. 10-805-01.


## CHOICE OF THE CABLING

A system with video appliances has to be cabled in a 6-wire way. This makes the system very flexible, enabling you to add additional internal units (audio and video), relays or other appliances to your installation at any time.

- With a line cabling for monitors, you can connect up to 6 monitors with one cable without having to use splitters.
- With a star cabling for monitors, you have to use splitters to split the signal in 2 or 4 new signals. To every output of a splitter, you can again connect 6 monitors.
- If the installation has several external units or cameras, you have connect these to a switcher. The switcher selects the correct video image for the right internal unit.

You can run through all camera images at any time.

## Function of the cable pairs

$\mathbf{a} \& \mathbf{b}$ : This pair forms the BUS. This pair transmits the communication (speech) and the control commands.
P\&M: This pair provides an extra power supply.
Between $P$ and $M$ you should be able to measure 26V DC $(M=$ mass $)$.
VI\&V2: This pair forms the video signal and should always consist of a twisted cable. Splitting the signal without the use of splitters is not permitted. Between VI or V2 and $b$ ( $b=$ mass) you should be able to measure approximately 5 V DC.

| $\frac{a}{b}$ | COMM:BUS (audio \& control) |
| :---: | :---: |
|  | VIDEO:BUS (composite video balanced) |
| $\begin{array}{\|l\|} \hline \mathrm{P} \\ \hline \mathrm{M} \\ \hline \end{array}$ | SUPPLY:BUS (central/local direct current voltage supply 24V) |

## Which cable type do you use best?

In order to obtain an optimum image quality over long distances, use a twisted cable.
The diameter of the wires determines the max. distance that can be covered. The larger the diameter, the bigger the distance between the power supply and the farthest internal or external unit. In the table below, you find an overview of the max. distance (from power supply to internal or external unit) per cable type.

| diameter | $0,5 \mathrm{~mm}$ <br> (e.g. UTP cat. 5E $4 \times 2 \times 0,5$ ) | $0,6 \mathrm{~mm}$ <br> (e.g. TPVF $3 \times 2 \times 0,6$ ) | $0,8 \mathrm{~mm}$ <br> (e.g. TVVF $3 \times 2 \times 0,8$, JYSTY $4 \times 2 \times 0,8$, TWAVB $4 \times 2 \times 0,8 \ldots$...) |
| :--- | :---: | :---: | :---: |
| max. distance | 70 m | 100 m | 200 m |

For covering larger distances, please contact the Niko Customer Service

## Parallel function of video monitors:

If $\mathbf{2}$ monitors are activated simultaneously on the same line cabling, you have to divide the distances to be covered by $\mathbf{2}$. If 3 monitors are activated simultaneously, you divide the distance by 3 etc. If the monitors are activated simultaneously and are cabled in star, the max. distance applies again.

## MOUNTING INSTRUCTIONS FOR EXTERNAL UNITS

Directives for mounting a video external unit
Cameras should not be aimed at:

- direct backlighting
- direct sunlight
- a blinding image background or a background with extreme contrasts
- highly reflective walls
- lamps or other light sources


## Recommended mounting height:

- standing persons: approx. 160 cm (normal)
- children, persons in a wheelchair: approx. 120 cm
- sitting in a car: approx. $100-120 \mathrm{~cm}$
- sitting in a truck: approx. $180-220 \mathrm{~cm}$

Always make sure that the middle of the lens matches the middle of the image to be displayed.

## Horizontal and vertical detection range

The detection range was calculated on the basis of an observation distance of $30-90 \mathrm{~cm}$ (range of vision of a person). For detection beyond this range, the units are only limitedly suitable: the images are displayed too small. If this is the case, you can install the surface mounting camera with ref. 10-490-01 (with lenses with a larger focus length).

## ACCESSORIES FOR VIDEOPHONE INSTALLATIONS WITH ONE EXTERNAL UNIT AND ONE INTERNAL UNIT PER BELL PUSH BUTTON, TYPE I0-570 OR IO-57I

In the following overview you can see what is needed for an installation with one external unit and one internal unit per bell push button.
You can always add external and internal intercom units to the installation.
Take into account the maximum configuration of the power supply (see "CHOICE OF POWER SUPPLY") and the necessary system components (splitters and switchers) if you want to install the following:

- more than one internal video unit per bell push button
- more than one external video unit

All external units are supplied with a colour camera.

| External unit * | System components |  |  |  |  | Internal unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 10, $10-801$ |  |  |  | 10-570 \& 10-57\| |
| \# push buttons |  |  |  |  |  | \# |
| I | I |  |  |  |  | 1 |
| 2 | I |  |  |  |  | 2 |
| 3 | 1 |  |  |  |  | 3 |
| 4 | 1 |  |  |  |  | 4 |
| 6 | I |  |  |  |  | 6 |
| 8 | 1 |  |  | 1 |  | 8 |
| 10 | 1 |  |  | 1 |  | 10 |
| 12 | 1 |  |  | I |  | 12 |
| 16 |  | 1 | I |  | I | 16 |
| 20 |  | I | I |  | I | 20 |
| 24 |  | I | I |  | I | 24 |
| 30 |  | 1 | 1 | 1 | 1 | 30 |
| 42 |  | 1 | I |  | 2 | 42 |
| 60 |  | I | I | I | 2 | 60 |
| $>60$ | Contact Niko for a |  |  |  |  |  |

* If you would like to have several door stations, then use one video switcher 10-823 (for a maximum of four external units) and one relay 10-835 per external unit.
** If more than two internal units are active at the same time and the installation contains more than six internal units, then always use power supplies I0-801 and I0-805-0I.
*** Calculated based on (maximum) six monitors per video output.


## DIMENSIONS FLUSH MOUNTING BOXES

| $10-301$ | $203 \times 126 \times 40 \mathrm{~mm}$ |
| :--- | :--- |
| $10-302$ | $203 \times 126 \times 40 \mathrm{~mm}$ |
| $10-303$ | $203 \times 126 \times 40 \mathrm{~mm}$ |
| $10-304$ | $203 \times 126 \times 40 \mathrm{~mm}$ |
| $10-306$ | $291 \times 126 \times 40 \mathrm{~mm}$ |
| $10-308$ | $291 \times 126 \times 40 \mathrm{~mm}$ |
| $10-310$ | $225 \times 250 \times 40 \mathrm{~mm}$ |
| $10-312$ | $247 \times 250 \times 40 \mathrm{~mm}$ |
| $10-314$ | $269 \times 250 \times 40 \mathrm{~mm}$ |
| $10-316$ | $291 \times 250 \times 40 \mathrm{~mm}$ |
| $10-318$ | $247 \times 374 \times 40 \mathrm{~mm}$ |
| $10-321$ | $269 \times 374 \times 40 \mathrm{~mm}$ |
| $10-324$ | $291 \times 374 \times 40 \mathrm{~mm}$ |



VIDEO DOOR COMMUNICATION WITH PARALLEL FUNCTION OR LARGE INSTALLATIONS FOR I RISING MAINS (WITHOUT SPLITTERS)


VIDEO DOOR COMMUNICATION WITH SPLITTER I0-824-0I (STAR CABLING)


VIDEO DOOR COMMUNICATION WITH SPLITTER IO-822-OI FOR SEVERAL RISING MAINS


## VIDEO DOOR COMMUNICATION WITH SPLITTER IO-82I-OI FOR I CENTRAL RISING MAINS



10-312


## ACCESS CONTROL: GENERAL INFORMATION

This general information applies to both door intercom systems and videophone systems.

## CONNECTING A FLOOR BELL PUSH BUTTON

You can always connect a floor bell push button on terminals E and P of the internal units. Please always remove the lamp from the bell push button.


CONNECTING A LIGHT CIRCUIT TO THE POWER SUPPLY
You can connect a light circuit to the potentialfree contact ( 24 V and IA ) of the power supply modules kan. In order to power the circuit, an additional transformer is required if the connected resistance is smaller than $6 \Omega$. This relay can be controlled from every internal unit.

connecting a light circuit (230V~) to 10-801

connecting a light circuit (230V~) to 10-802

HOW TO PROGRAM IN A NUTSHELL
a) Manually

I. Briefly press the 'prog' key. The LED blinks.
2. Pick up the receiver of the internal unit.
3. Press the correct bell push button on the correct external unit.
4. Put down the receiver.
5. Exit programming mode by again briefly pressing the 'prog' key. The LED lights continuously.
b) By means of the service set

Thanks to the service set ( $10-870$ ), the installation can be programmed much faster and more efficiently. You only have to stick the stickers with the serial number you find at the back of the internal unit to your wiring diagram. Connect the service set to the external unit, insert the serial numbers and assign the bell push buttons.

I

2

3

## APPLICATIONS WITH RELAY

## Switching light:

Apart from the use of the built-in lighting unit on the power supply, you can further extend the audio or video door communication system to switching for various purposes such as e.g. lighting by means of the flush mounting relay or the relay for DIN rail mounting.


Door opener::
Apart from the door open contact that is provided on the power supply module as a standard, you can add several door open relays. This is required in case here are several external units.


## Switching a bell / buzzer:

Via the relay module with ref. 10-836 ( 24 V contact), the relay with ref. $10-837$ ( 230 V contact) or the modular relay with ref. $10-830$ ( 230 V contact), you can connect an additional bell, chime or buzzer. In case of relays $10-837$ and $10-830$, this can be programmed manually, in case of relay $10-836$, the service set is required for programming.


## DEURTELEFONIE MET TELEFOONINTERFACE



CODE KEYBOARD
With system power supply: (10-801 / 10-802 / 10-806):


## 10-801

## NIKOBUS CONNECTION

If you are using a bus interface module and the relay, you can make a connection to the Nikobus. In the following wiring diagrams, you find some of the possibilities.

Wiring diagram with input module 05-206


Diagram with switching module 05-000-02


## SEMAPHOR WITH NIKO POWER SUPPLY 04-448



## SEMAPHOR WITH SAFETY TRANSFORMER 230V~/I2V~




[^0]:    Software key (dongle) + "Access Key Controller" software
    The Access Key Controller user software allows you to execute a scalable access policy. It is a complete management package with which keys, profiles, time zones and functions can be assigned to persons. The software has 3 user modes: an observation mode which allows access to the log book, a standard mode in which keys and persons can be added and a configuration mode in which functions and profiles can be modified. The software is always used in combination with type 10-902 and 10-903 readers.

    The software is equipped with a software key in the form of a USB dongle. This dongle must always be connected to the PC in the installation in order for it to function.

    Available on request; contact Niko for more information and project support.

    - required PC configuration: Windows XP, 256 MB RAM


    ## Complete units

    Software key with access key software
    10-857
    Pack: I

