

Customised control stations, covered by type examination certificates, can be individually combined from CEAG's numerous built-in components.

ordering. The sum of the code numbers designates a complete control station.

A coding system for these components with unique designations can be used for planning, selection and

For the selection of control units and components, please see page 9.34 pp.

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Double pushbutton DDT
2-pole and 4-pole

Pushbutton DRT

Signal lamp SIL

Measuring instrument
AM72

Mushroom-head
pushbutton SGTE

Control switch SCT

Key-operated
pushbutton SLT
and key-
operated
switch SLS

Control switch GHG 23

Terminal block KLM

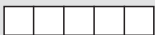





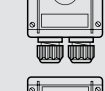
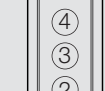


Potentiometer POT

| Order Code for Individual Control Units |

Individual control units can be defined by 4 groups of components:
















1. Empty Enclosure
2. Components per mounting area
3. Accessories
4. Cable glands

Code 1: Empty Enclosure

| | | | | | | | | | |
|----|---|--------------------|------------------|--|--|--|--|--|--------|
| |  | | | | | | | | |
| | | Code for enclosure | | | | | | | |
| MA |  | | ① | | | | | | 411 81 |
| MA |  | | ① ② | | | | | | 411 82 |
| MA |  | | ① ② ③ | | | | | | 411 83 |
| MA |  | | ① ② | | | | | | 432 |
| MA |  | | ① ② ③ ④ | | | | | | 434 |
| MA |  | | ① ② | | | | | | 414 81 |
| MA |  | | ① ② ③ ④ | | | | | | 414 82 |
| MA |  | | ① ② | | | | | | 413 84 |
| MA |  | | ① ② ③ ④ | | | | | | 413 85 |

Code 2: Components per mounting area (max. 4)

| | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------|
| A | C | D(1) | (D2) | E | F | Mounting area 1 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MA1 |
| A | C | D(1) | (D2) | E | F | Mounting area 2 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MA2 |
| A | C | D(1) | (D2) | E | F | Mounting area 3 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MA3 |
| A | C | D(1) | (D2) | E | F | Mounting area 4 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MA4 |

| | | |
|--|---|--|
|  Pushbutton DRT 2-pole |  4-pole |  Signal lamp SIL |
|  Double-pushbutton DDT 2-pole |  4-pole |  Potentiometer POT |
|  Key-operated pushbutton SLT 2-pole |  4-pole |  Control switch Ex 23 Ex 29 |
|  Key-operated switch SLS 2-pole |  4-pole |  Measuring instrument AM 45 AM 72 |
|  Mushroom-head pushbutton SGTE |  SGT |  Terminal block KLM |

Example: Enclosure Type 434,
 Pushbutton (MA4),
 Signal lamp (MA3)
 Emergency stop
 Mushroom head pushbutton (MA2)
 Double pushbutton (MA1)

Code 1: 434..
 Code 2 MA4: DRT 14 001
 Code 2 MA3: SIL 1 10
 Code 2 MA2 SGTE 13 1 1 2
 Code 2 MA1: DDT15 001 007

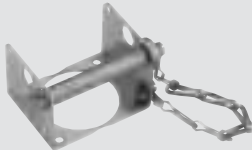
Code 3 MA1: ZUB 19
 Code 3 MA2: ZUB 19
 Code 3 MA3: ZUB 02
 Code 3 MA4: --
 Code 4: GEH 1 GK M25 2

Code 3: Lables and locking facilities

| | | | |
|--------------------------|--------------------------|--------------------------|------------------------|
| A | B | C | Mounting area 1 MA1 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| A | B | C | Mounting area 2 MA2 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| A | B | C | Mounting area 3 MA3 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| A | B | C | Mounting area 4 MA4 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |



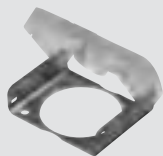
Label with holder
ZUB 20



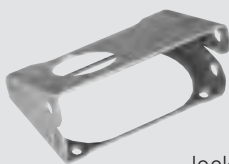
locking facility
ZUB 14



locking facility with hammer
ZUB 05



locking facility
ZUB 12



locking facility double pushbutton
ZUB 17

Code 4: Cable entries and flanges

| | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| A | B | C | D | E |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



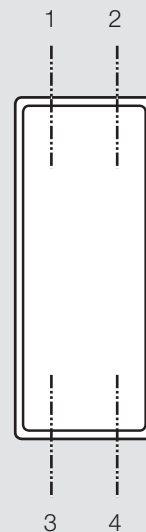
Metal flange plate
FLM



plastic cable gland
GK

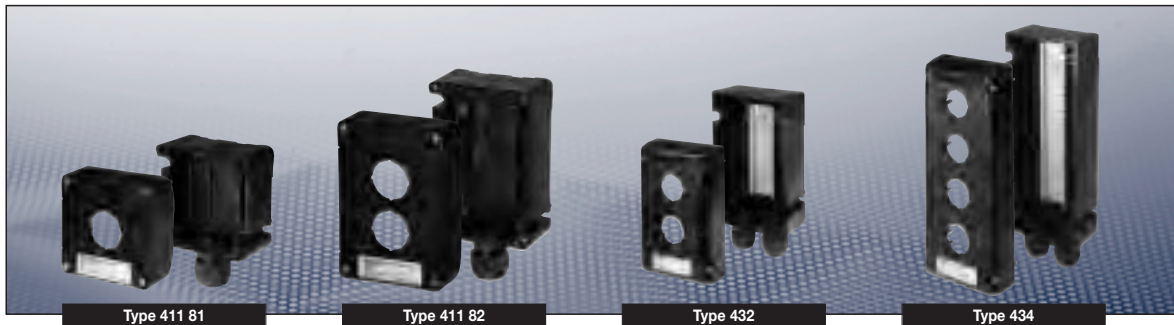


plastic trumpet-shaped
cable gland TR



position for
drilling/gland

Ex-control stations



Technical data

Ex-Control stations Type 41. and 43. for individual configuration

| | |
|--|---|
| Marking to 94/9/EC | II 2 G Ex ed ib m IIC T6 II 2 D Ex tD A21 IP66 T80 °C |
| EC-Type Examination Certificate | PTB 00 ATEX 3117 |
| IECEX Certificate of conformity | IECEX BK1 04.0003 |
| Marking accd. to IECEx | Ex e II T6, Ex e ib IIC T6, Ex ed IIC T6 or Ex ed ib IIC T6 |
| Permissible ambient temperature | -20 °C to +40 °C -55 °C to +55 °C (option) |
| Rated voltage | 690 V AC |
| Rated current | 16 A |
| Connecting terminals | 2 x 4 mm ² |
| Insulation class | I |
| Degree of protection accd. EN 60529 | IP66 (standard) IP65 (measuring instrument AM45, double pushbutton) |
| Cable glands/Gland plates/Enclosure drilling | 1 x M25 EEx-e cable gland for cables from Ø 8 - 17 mm or 1 x M20 thread |
| Enclosure material | Polyamide |
| Enclosure colour | black |

Type 411 81

| | |
|--|---|
| Cable glands/Gland plates/Enclosure drilling | 1 x M25 EEx-e cable gland for cables from Ø 8 - 17 mm or 1 x M20 thread |
| Dimensions (L x W x H) | 85 x 85 x 77.5 mm |
| Weight (empty) | 0.25 kg |
| Mounting arrangements | 1 mounting area |

Type 411 82

| | |
|--|---|
| Cable glands/Gland plates/Enclosure drilling | 1 x M25 EEx-e cable gland for cables from Ø 8 - 17 mm or 1 x M20 thread |
| Dimensions (L x W x H) | 125 x 85 x 77.5 mm |
| Weight (empty) | 0.35 kg |
| Mounting arrangements | 2 mounting areas |

Type 411 83

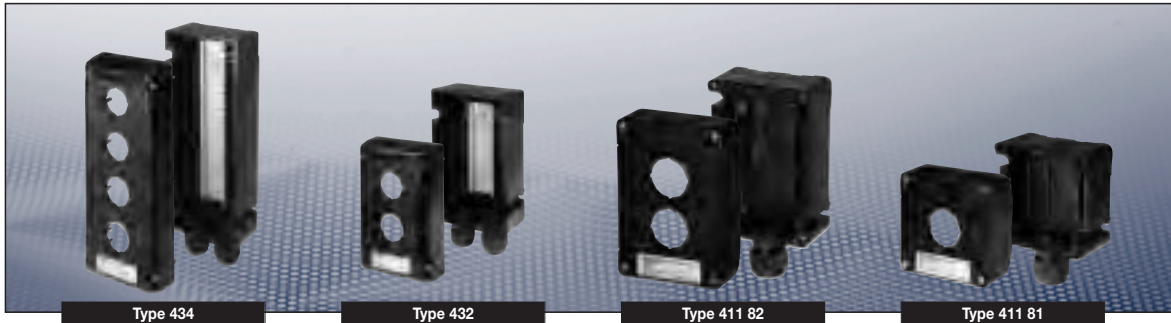
| | |
|--|---|
| Cable glands/Gland plates/Enclosure drilling | 1 x M25 EEx-e cable gland for cables from Ø 8 - 17 mm or 1 x M20 thread |
| Dimensions (L x W x H) | 165 x 85 x 77.5 mm |
| Weight (empty) | 0.45 kg |
| Mounting arrangements | 3 mounting areas |

Type 432

| | |
|--|--|
| Cable glands/Gland plates/Enclosure drilling | 2 x M25 EEx-e cable gland for cables from Ø 8 - 17 mm incl. 1 blanking plug or 2 x M20 thread |
| Dimensions (L x W x H) | 156 x 100 x 90 mm |
| Weight (empty) | 0.47 kg |
| Mounting arrangements | 2 mounting areas |

Type 434

| | |
|--|--|
| Cable glands/Gland plates/Enclosure drilling | 2 x M25 EEx-e cable gland for cables from Ø 8 - 17 mm incl. 1 blanking plug or 2 x M20 thread |
| Dimensions (L x W x H) | 245 x 100 x 90 mm |
| Weight (empty) | 0.70 kg |
| Mounting arrangements | 4 mounting areas |



Ordering codes (Code 1)

| 1. Empty enclosure | 2. Components arrangement/Terminals | | | | 3. Labels/Locking devices | 4. Cable glands |
|----------------------|-------------------------------------|-----------------|-----------------|-----------------|---------------------------|-----------------|
| | Mounting area 1 | Mounting area 2 | Mounting area 3 | Mounting area 4 | | |
| 411 81 ¹⁾ | X | - | - | - | X | X |
| 411 82 | X | X | - | - | X | X |
| 411 83 | X | X | X | - | X | X |
| 432 | X | X | - | - | X | X |
| 434 | X | X | X | X | X | X |

Possible components (Code 1)

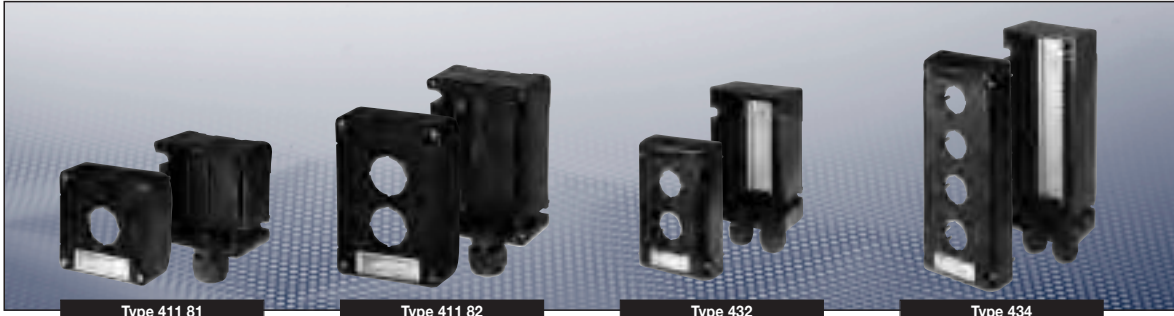
| Component | Code | Component | Code |
|---|----------------------|-------------------------------------|--------------------|
| Pushbutton (2-pole or 4-pole) ²⁾ | DRT | Measuring instrument | AM72 ²⁾ |
| Double pushbutton (2-pole or 4-pole) ²⁾ | DDT | Measuring instrument | AM45 |
| Key-operated pushbutton (2-pole or 4-pole) ²⁾ | SLT | Signal lamp | SIL |
| Key switch (2-pole or 4-pole) ²⁾ | SLS | Potentiometer | POT |
| Control switch (2-pole or 4-pole) ²⁾ | SCT | Terminal block (4 mm ²) | KLM |
| Mushroom-head pushbutton (2-pole or 4-pole) ²⁾ | SGT | Blanking element | BLV |
| Control switch | GHG 23 ³⁾ | | |

¹⁾ 4-pole component not possible

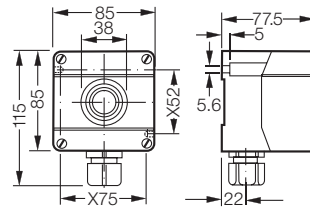
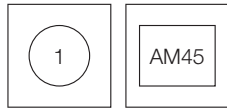
²⁾ 2 mounting areas are needed

³⁾ only for type 43., 2 mounting areas are needed

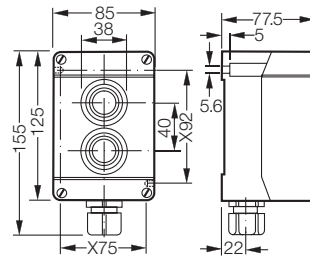
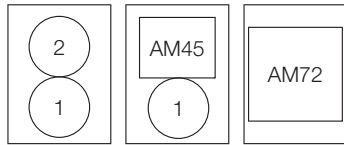
| Ex-control stations |



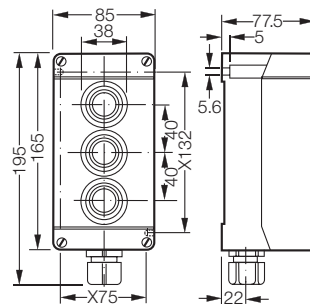
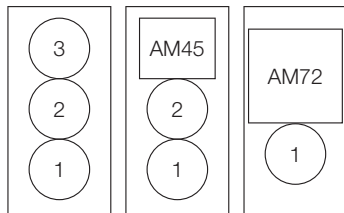
Mounting areas | Dimension drawing



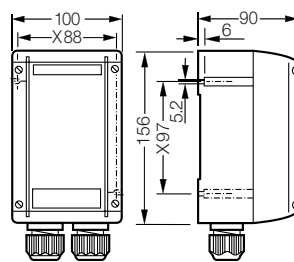
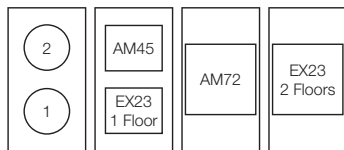
Type 411 81



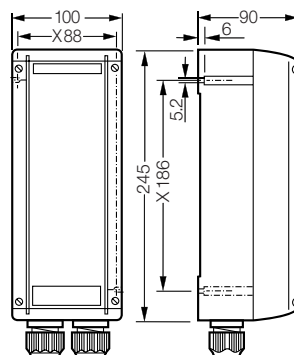
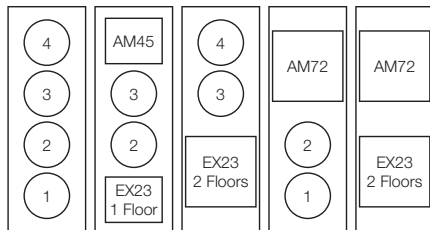
Type 411 82



Type 411 83



Type 432



Type 434

X = fixing dimension

Dimensions in mm