

ORDER FORM

To order the e²TANGO-2000 protections, please fill in this part of the form according to the INSTRUCTIONS FOR FILLING IN THE FORM on the next page.

STEP 1

| | | | | | | |
|---|---|---|---|---|---|--|
| ① panel version | <input checked="" type="checkbox"/> 2000-ODL | <input type="checkbox"/> 2000-ODL+LRR ¹⁾ | | | | |
| ② central unit version | <input checked="" type="checkbox"/> J6 | <input type="checkbox"/> J10 | <input type="checkbox"/> J14 | <input type="checkbox"/> J6H ²⁾ | <input type="checkbox"/> J10H ³⁾ | <input type="checkbox"/> J14H ²⁾ |
| ③ TR measuring card version | <input type="checkbox"/> TR (standard, 5I+4U) | <input checked="" type="checkbox"/> TRS (4I+5U) | | | | |
| ④ measuring card parameters | <input checked="" type="checkbox"/> 5 A | <input type="checkbox"/> 1 A | | | | |
| ⑤ power supply voltage | <input checked="" type="checkbox"/> UNI (110/230 V AC/DC) | <input type="checkbox"/> 24V (24/48 V AC/DC) | <input type="checkbox"/> others | | | |
| Ethernet communication port (standard on each central unit) | | | | | | |
| ⑥ COM1 | <input checked="" type="checkbox"/> x-none | <input type="checkbox"/> RS485 | <input type="checkbox"/> CANx2 | <input type="checkbox"/> OPTOMM | <input type="checkbox"/> OPTOSM | <input type="checkbox"/> OPTOP <input type="checkbox"/> Profibus <input type="checkbox"/> others |
| ⑦ COM2 | <input checked="" type="checkbox"/> x-none | <input type="checkbox"/> RS485 | <input type="checkbox"/> CANx2 | <input type="checkbox"/> OPTOMM | <input type="checkbox"/> OPTOSM | <input type="checkbox"/> OPTOP <input type="checkbox"/> Profibus <input type="checkbox"/> others |
| ⑧ installation method | <input checked="" type="checkbox"/> Z - flush | <input type="checkbox"/> N1 - surface ver. 1 | <input type="checkbox"/> N3 - surface ver. 3 | <input type="checkbox"/> M - Mixed | <input type="checkbox"/> ZR - flush in rack cabinet | |
| ⑨ panel-unit cable length | <input checked="" type="checkbox"/> S-1 m | <input type="checkbox"/> L-2 m | <input type="checkbox"/> other | | | |
| ⑩ IP protection class | <input checked="" type="checkbox"/> IP 4X | <input type="checkbox"/> IP 54 ³⁾ | | | | |
| ⑪ communication IEC 61850 | <input checked="" type="checkbox"/> EX-none | <input type="checkbox"/> 0-ETH fibre optic | <input type="checkbox"/> 02-ETH fibre optic with PRP | <input type="checkbox"/> 02G-02+GOOSE | <input type="checkbox"/> E2-electric | |
| | <input type="checkbox"/> E-ETH electric | <input type="checkbox"/> EG-ETH electric+GOOSE | <input type="checkbox"/> 0G-ETH fibre optic+GOOSE | <input type="checkbox"/> E2G-electric+GOOSE | | |
| ⑫ language version | <input type="checkbox"/> PL | <input checked="" type="checkbox"/> EN | <input type="checkbox"/> other - in agreement with manufacturer | | | |

1) e²TANGO-2000-ODL version combined with e²TANGO-2000-LRR line differential protection available on special order

2) reinforced W1, W2, W3 outputs

3) protection class IP 54 only available in version with flush and mixed installation

STEP 2

| Card name | Kod | Slot | | | | | | | | | | | | | |
|---|--------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| CPU processor card | - | standard in every device | | | | | | | | | | | | | |
| PSU power supply card - 7 relay outputs | - | standard in every device | | | | | | | | | | | | | |
| Ethernet communication port | - | standard in every device | | | | | | | | | | | | | |
| 8 binary inputs | 8IN | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 binary inputs | 12IN | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 binary inputs 24-48 V* | 8IN24 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 binary inputs 24-48 V* | 12IN24 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 relay outputs | 8OUT | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 relay outputs, reinforced | 4OUTH | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 analogue inputs 0-10 V | AI10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 analogue inputs 4-20 mA | AI20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 analogue outputs 0-10 V | AO10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 analogue outputs 4-20 mA | AO20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 temperature inputs PT100 | PT1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 temperature inputs PT1000 | PT10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | J6 | | | | | | J10 | | | | J14 | | | |

* universal card for voltages between 24-48 V AC/DC

additional requirements:

STEP 3

Your code:

e²TANGO
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫

A
B
C
D
E
F
G
H
I
J
K
L
M
N

INSTRUCTIONS FOR FILLING IN THE FORM

STEP 1

The presented table includes basic technical parameters of the e²TANGO-2000 protections. Only 1 item should be selected from each item numbered from 1 to 10. If "other" is selected, enter the ordered value in the corresponding field in STEP 3.

Explanation for step 1.

- recommended basic configuration
- OPTOMM - multi-mode fibre optic
- N1 - surface installation ver. 1
- N3 - surface installation ver. 3

STEP 2

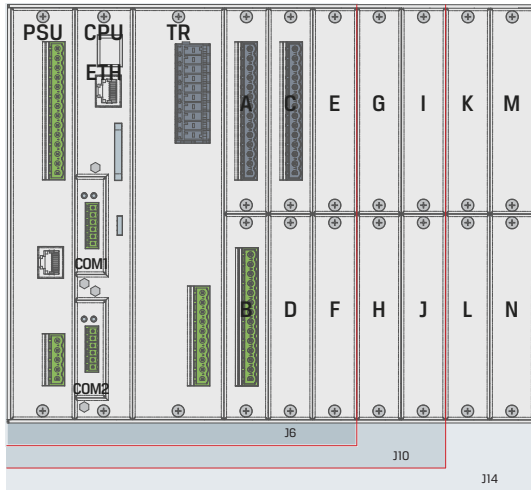
The presented table includes a list of available expansion cards and possible places for their installation in the e²TANGO-2000 HV protection central unit. No tick box means that the given card cannot be installed in a given place. Select the cards to be ordered from the list and mark with the "X" slot in which they are to be installed. The cards' distribution should start with the A slot. The unit capacities are marked with a background colour in the table, respectively.

Explanation for step 2.

- recommended basic configuration
- maximum 4 8OUT cards
- maximum 1 AI10 card or 1 AI20 card
- maximum 1 AO10 card or 1 AO20 card
- maximum 1 PT1 card or 1 PT10 card

Describe additional requirements in the designated area.

View of the central unit with a selection of the slot arrangement for expansion cards



STEP 3

The above-selected parameters of the e²TANGO bay controller should be completed in appropriate fields. The e²TANGO code created in such a way together with other requirements or a scanned page of the form should be sent with the order to: export@elektrometal-energetyka.pl

Example of the e²TANGO-2000 HV protection unit configuration:

- | | |
|---|--|
| ① e ² TANGO-2000-ODL | ⑨ 8 m cable |
| ② J6 central unit | ⑩ protection class IPX4 IEC 61850 |
| ③ TRS measuring card | ⑪ communication (electric) |
| ④ rated current of the measuring card 5 A | ⑫ EN |
| ⑤ universal binary inputs voltage | <input type="checkbox"/> A slot A: card 8IN |
| ⑥ RS485 | <input type="checkbox"/> B slot B: card 8OUT |
| ⑦ OPTOSM | <input type="checkbox"/> C slot C: card 12IN |
| ⑧ mixed installation | |

Example of correct code completion:

| | | | | | | | | | | | | |
|----------------------|----------|------|-----|----|-----|-------|--------|---|---|------|---|----|
| e ² TANGO | 2000-ODL | J6 | TRS | 5A | UNI | RS485 | OPTOSM | M | 3 | IP4X | E | EN |
| 8IN | 8OUT | 12IN | | | | | | | | | | |