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	☐ 2000-LRR[1]					
②	central unit version	☐ J6	☐ J10	☐ J14	☐ J6H[2]	☐ J10H[2]	☐ J14H[2]
③	TR measuring card version	☐ TR (standard, 5I+4U)	☐ TRS (4I+5U)				
④	measuring card parameters	☐ 5 A	☐ 1 A				
⑤	power supply voltage	☐ UNI (110/230 V AC/DC)	☐ 24 V (24/48 V AC/DC)	☐ others			
	Ethernet communication port (standard on each central unit)						
⑥	COM1	☐ x-none	☐ RS485	☐ CANx2	☐ OPTOMM	☐ OPTOP	☐ Profibus ☐ others
⑦	COM2	☐ x-none	☐ RS485	☐ CANx2	☐ OPTOMM	☐ OPTOSM ☐ OPTOP	☐ Profibus ☐ others
⑧	installation method	☐ Z - flush	☐ N1 - surface ver. 1	☐ N2 - surface ver. 2	☐ N3 - surface ver. 3	☐ M - Mixed	☐ ZR - flush in rack cabinet
⑨	panel-unit cable length	☐ S-1 m	☐ L-2 m	☐ other			
⑩	IP protection class	☐ IP 4X	☐ IP 54[3]				
⑪	Communication IEC 61850	☐ x-none	☐ 0-ETH fibre optic	☐ 02-ETH fibre optic with PRP	☐ 02G-02+GOOSE	☐ E2-electric	
		☐ E-ETH electric	☐ EG-ETH electric+GOOSE	☐ 0G-ETH fibre optic+GOOSE	☐ E2G-electric+GOOSE		

1) the e²TANGO-2000-LRR version requires using the OPTOSM communication card in COM2 for communication with the device on the other end of the protected line
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	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
12 binary inputs	12IN	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
8 binary inputs 24-48 V*	8IN24	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
12 binary inputs 24-48 V*	12IN24	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
8 relay outputs	8OUT	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4 relay outputs, reinforced	0UTHI	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4 analogue inputs 0-10 V	AI10	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4 analogue inputs 4-20 mA	AI20	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4 analogue outputs 0-10 V	A010	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4 analogue outputs 4-20 mA	A020	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6 temperature inputs PT100	PT1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6 temperature inputs PT1000	PT10	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		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
	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
- N2 - surface installation ver. 2
- N3 - surface installation ver. 3

STEP 2

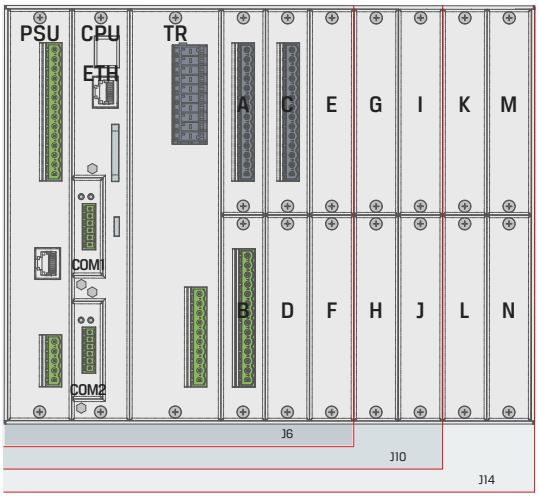
The presented table includes a list of available expansion cards and possible places for their installation in the e²TANGO-2000 HV protection central unit. No tick box ☐ means that the given card cannot be installed in a given place. Select the cards to be ordered from the list and mark with the "X" 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.

Describe additional requirements in the designated area.

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

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: eaz@elektrometal-energetyka.pl

Example of the e²TANGO-2000 HV protection unit configuration:

① e²TANGO-2000-LRR	⑧ mixed installation
② J10 central unit	⑨ 8 m cable
③ TRS measuring card	⑩ protection class IPX4
④ rated current of the measuring card 5 A	⑪ IEC 61850 communication (electric)
⑤ universal binary inputs voltage	A slot A: card 8IN
⑥ RS485	B slot B: card 8OUT
⑦ OPTOSM	C slot C: card 12IN

Example of correct code completion:

e²TANGO	2000-LRR	J10	TRS	5A	UNI	RS485	OPTOSM	M	8	IP4X	E

8IN	8OUT	12IN											

ELEKTROMETAL ENERGETYKA SA
ul. Mazura 18A, 02-830 Warszawa
tel.(+48) 22 350 75 50, fax(+48) 22 350 75 51
biuro@elektrometal-energetyka.pl

District Court for the capital city of Warsaw in Warsaw,
XIII Commercial Division of the National Court Register
KRS 0000479639, Share Capital PLN 1.700.000,00
paid in full, Tax Identification Number (NIP): 951-23-72-169

eaz@elektrometal-energetyka.pl
www.elektrometal-energetyka.pl