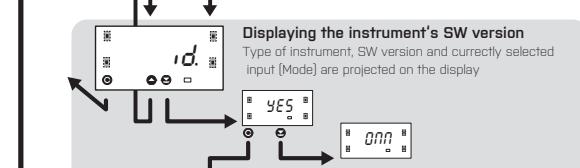
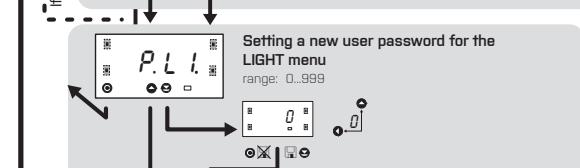
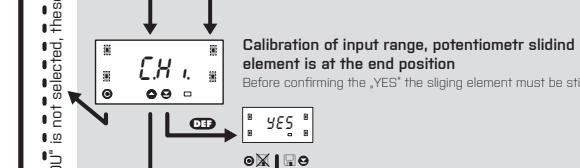
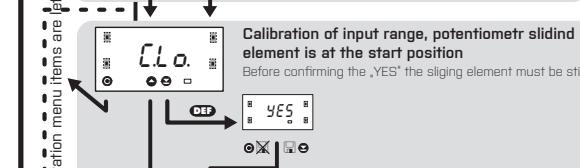
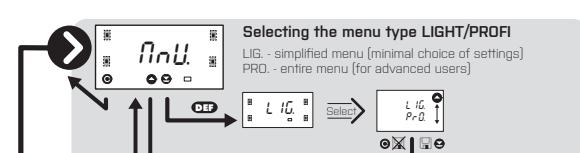
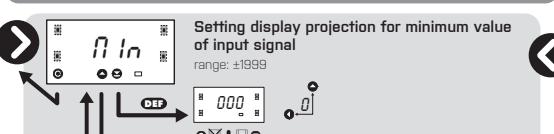
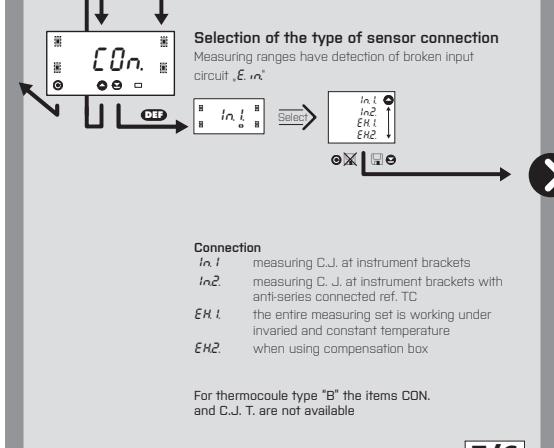
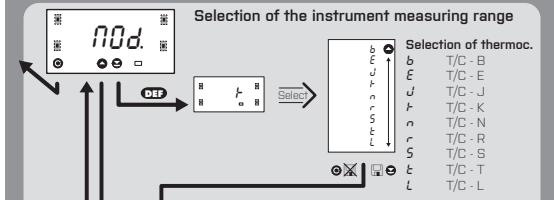
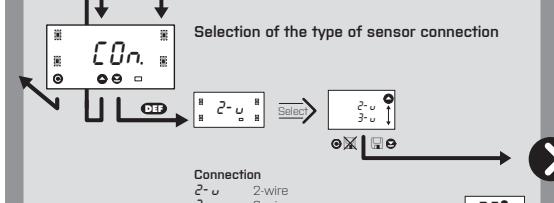
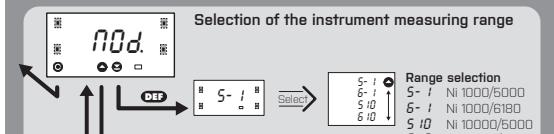
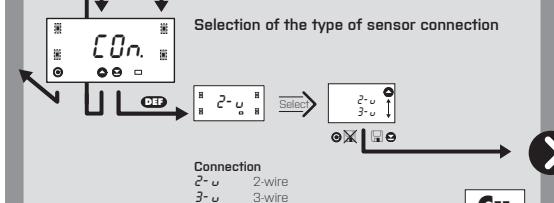
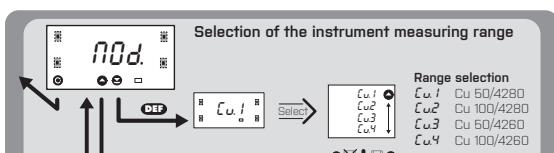
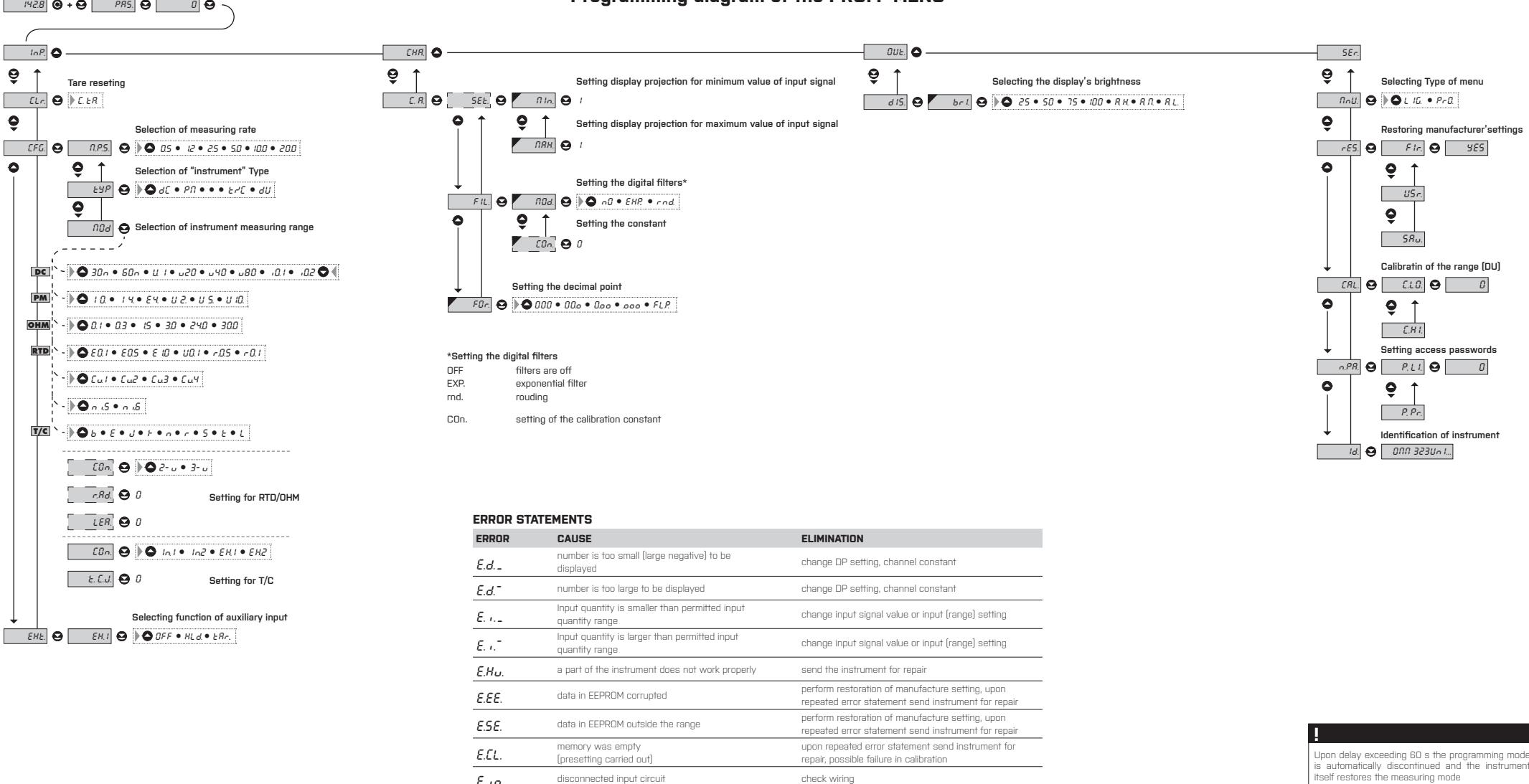


Programming diagram of the LIGHT MENU



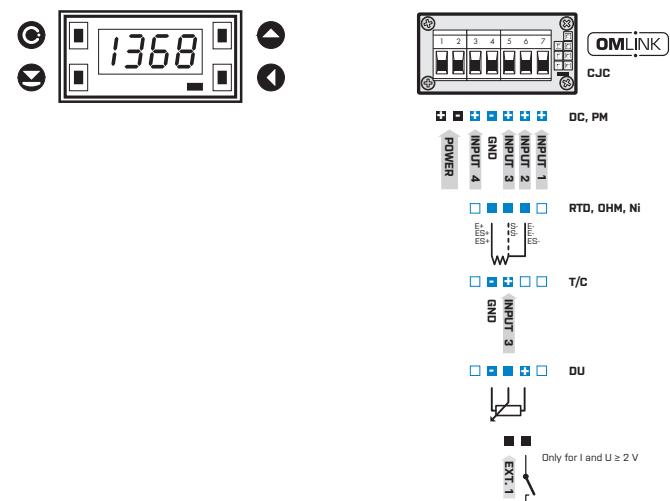
Only for mode „DU“

Programming diagram of the PROFI MENU



CONNECTING AND CONTROLLING OF INSTRUMENT

TECHNICAL DATA



Power supply cord should not be near low voltage input signal leads.
Contactors, large electrical motors and other power elements should not be operated in the vicinity of the instrument.
Input signal leads (measured value) should be separated from all power devices.
Our instruments are extensively tested and they comply with relevant standards for use in industrial environment, however, adhering to the above mentioned measures is strongly advised.

! In „RTD“ or „OHM“ input with 2-wire connection it is necessary to link the unconnected inputs [No. 5 and 6] on the terminal block

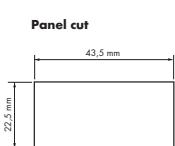
MEASURING RANGES - CONNECTION

TYPE	INPUT 1	INPUT 3	INPUT 4
DC	$\pm 20/\pm 40/\pm 80$ V	$\pm 30/60$ mV/ ± 1 V	$\pm 90/\pm 180$ mA
PM	$\pm 2/\pm 5/\pm 10$ V		± 20 mA, 4...20 mA
OHM	0...100/300 Q/0...1.5/3/24/30 kQ		
RTD-PT	Pt 50/100/1 000		
RTD-CU	Cu 50/100		
RTD-NI	NI 1000/10 000		
T/C	J/K/T/E/B/S/R/N/L		
DU	Linear potentiometer [min. 500 Q]		

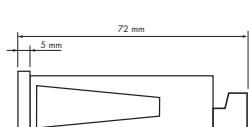
EXTERNAL INPUT

DESCRIPTION	CONTROLS
controlling input; its function is set in the menu [see. Menu > EX. 1] Only for inputs I and U \geq 2 V	upon contact, terminal [No. 5 + 6]

MOUNTING AND DIMENSIONS



Side view



MEASURING INPUT

Input	DC	Range	Input 1	Input 2	Input 3	Input 4
RTD	Type					
NI	Type	Ni 1000/Ni 10 000 with 5 000 ppm/C	-50...250°C			
Cu	Type	Cu 50/Cu 100 with 4 260 ppm/C	-50...200°C			
T/C	Type	J [Fe-CuNi] K [NiCr-Ni] T [Cu-CuNi] E [NiCr-CuNi] B [PtRh30-PtRh6] S [PtRh10-Pt] R [Pt13Rh-Pt] N [OmegaGalloy] L [Fe-CuNi]	-200...900°C -200...1300°C -200...400°C -200...680°C 300...1820°C -50...1760°C -50...1740°C -200...1300°C -200...900°C			
DU	Lin. pot.supply	2.5 VDC/6 mA, min. potentiometer resistance is 500 Q				

INSTRUMENT'S ACCURACY

TC	50 ppm/C
Accuracy	$\pm 0.15\%$ of the range + 1 digit $\pm 0.3\%$ of the range + 1 digit [T/C]
Accuracy of cold junction measurement:	$\pm 1.5^\circ\text{C}$
Rate	0.5...20 measurements/s
Overload capacity:	10x [$t < 30$ ms]; 2x
Resolution	0.1°C (RTD), 1°C (T/C)
Data back-up	stores the measured value after the device has been switched off [EEPROM]
Digital filters	exponential filter, rounding
Functions	Hold - "freezing the measured value", Tare (upon contact), Only for ranges I and U \geq 2 V
External inputs	1, with the possibility of assigning various functions in the instrument's menu
DM Link	Company communication interface for operating, setting and updating of instruments
Watch-dog	reset after 600 ms
Calibration	at 25°C and 40% r.h.

PROJECTION

Display	1999, red or green 7-segment LED, digit height 9.1mm
Projection	± 1999
Decimal point	setting - in menu
Brightness	0 %, 25 %, 50 %, 75 %, 100 % (selectable in the menu) or automatically at three steps Auto, H, Auto, M and Auto, L

POWER SUPPLY

Supply	10...30 VDC/24 VAC, $\pm 10\%$, 0.2...1.5 VA, isolated
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MECHANICAL PROPERTIES

Material	Noryl GFN2 SE1, incombustible UL 94 V-I
Dimensions	49 x 24 x 72 mm
Panel cut out	43.5 x 22.5 mm

ENVIRONMENTAL

Connection	terminal board, section < 1.5 mm ²
Stabilization period	15 minutes after switch on
Working temperature	-20...60°C
Storage temperature	-20...85°C
Cover	IP42 [front panel only]
Construction	security class I
El. safety	EN 61010-1, A2
Dielectric strength	2.5 kVAC after 1 min between supply and input for pollution degree II, measuring cat. III power supply > 300 V [P1]
Insulation resistance*	
EMC	EN 61326-1 [Industrial area]

*PI - Primary insulation, DI - Double insulation



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