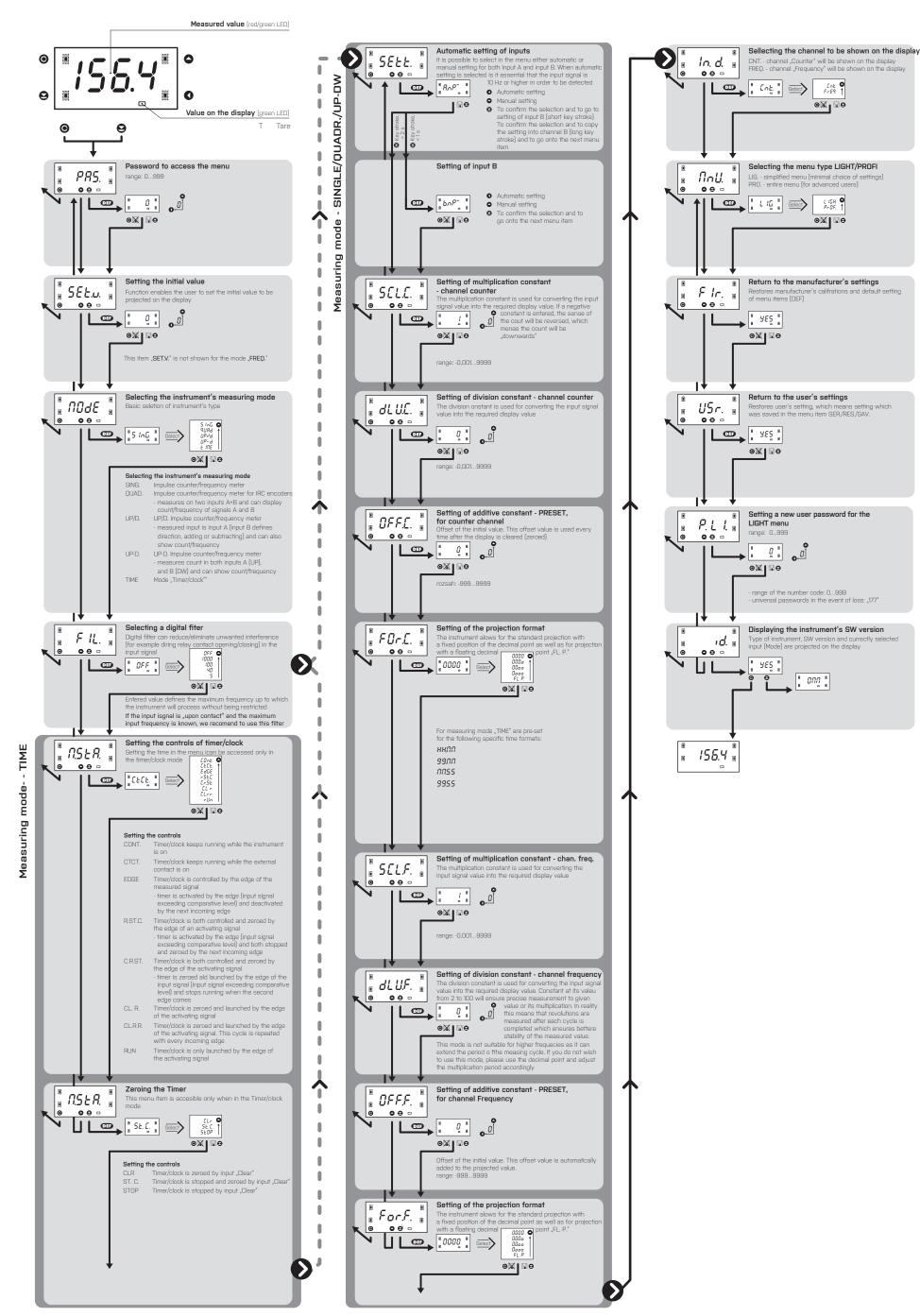
#### Programming diagram of the LIGHT MENU



Selecting Type of menu

9 ↑

USEr

Ô

5*8*u*E* 

9 ↑

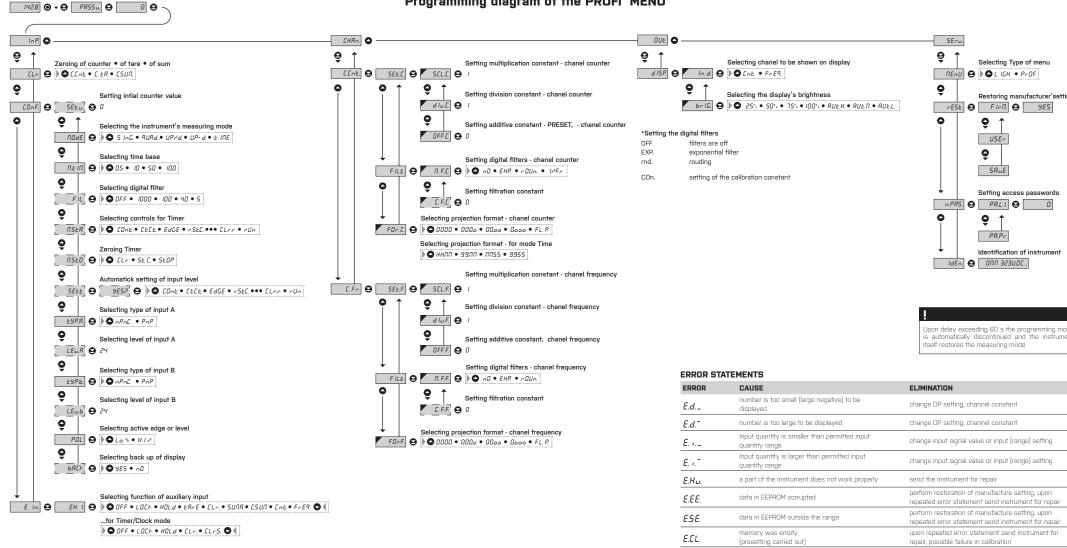
PR.Pr.

Identification of inetr

Setting access passwords



### Programming diagram of the PROFI MENU







#### **TECHNICAL DATA**





GND + Input B/Zeroing

input signal < 60 V

ONNECTIONS		
	DESCRIPTION	CONNECTION
INPUT A	input signal < 60 V	GND + Input A

## **EXTERNAL INPUT**

INPUT B

	DESCRIPTION	CONTROLS
EXT. 1	controlling input, its function is set in the menu (see. Menu > EXT. IN.)	upon contact, terminal (no. 3 + 4)

### COMPARATOR LEVEL TABLE (V)

TYPE OF INPUT	MAXIMUM VOLTAGE	MAXIMUM COMP	MAXIMUM COMPARATION LEVELS	
	(LEVEL A, B)	L>H	H > L	
NPN, Contact	XXX	0,5 V	4,5 V	
PNP	9,7 V	0,5 V	4,5 V	
PNP	14,4 V	1,□ ∨	9,0 V	
PNP	19,2 V	1,5 V	13,3 V	
PNP	23,9 V	2,0 V	17,8 V	
PNP	28,7 V	2,5 V	22,1 V	
PNP	33,5 V	3,0 V	26,6 V	
PNP	38,3 V	3,4 V	31,0 V	
PNP	43,0 V	3,9 V	35,5 V	

# 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 standrads for use in industrial environment, however, adhering to the above mentioned measures is stronlgy advised.

In executions without galvanic isolated power supply please beware of ground loops! Terminals no. 2 and 5 are galvanic

### MEASURING INPUT

Туре	upon contact, TTL, NPN/PNP
Measurement	Ix counter/frequency UP or DDWN Ix counter/frequency UP/DDWN Ix counter/frequency for IRC encoders Ix timer/clock - measuring range is selectable
Input frequency	0.150 kHz (Mode SINGLE) 0.120 kHz (Mode UP/DW) 0.120 kHz (Mode UP-DW) 0.120 kHz (Mode QUADR frequency) 0.110 kHz (Mode QUADR counter)
Input levels	9,7 - 14,4 - 19,2 - 23,9 - 28,7 - 33,5 - 38,3 V

E. 10.

### **INSTRUMENT'S ACCURACY**

TK	50 ppm/°C
Accuracy	±0,01% of the range + 1 digit (frequency)
Time base	0,5/1/5/10 s
Multiplication constant	±0,0019999
Division constant	±0,0019999
Filtration constant	enables the user to select maximum valid frequency, which is processed (OFF/51000 Hz)
Data back-up	stores the measured value after the device has been switched off (EEPROM)
Digital filtres	exponencialn filter, rounding up/down, 1/frequncy, measuring only completed revolutions (division constant)
Functions	Hold - 'freezing the measured value' Lock - blocking the control buttons Tare Summation - adding values after each working shift is completed (upon contact)
External inputs	1, with the possibility of assigning various functions in the instrument's menu
OM Link	Company communication interface for operating, setting and updating of instruments
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40% r.h.

#### **PROJECTION**

disconnected input circuit

Display	9999, red or green 7-segment LED, digit height 9,1mm
Projection	-9999999
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

check wiring

#### POWER SUPPLY 10...30 VDC/24 VAC, ±10 %, 0,2...1,5 VA

1030 VDC/24 VAC, ±10 %, 0,21,5 VA	
	1030 VDC/24 VAC, ±10 %, 0,21,5 VA, isolated
MECHANICAL PROPERTIES	
Material	Noryl GFN2 SE1, incombustible UL 94 V-I

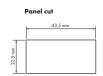
**ENVIROMENTAL** 

Connection	terminal board, section < 1,5 mm²
Stabilization period	15 minutes after switch on
Working temperature	-20°60°C
Storage temperature	-20°85°C
Cover	IP42 (front panel only)
Construction	security calss I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC after 1 min between supply and input
Insulation resistance*	for pollution degree II, measuring cat. III.
	power supply > 300 V (PI)
EMC	EN 61326-1 (Industrial area)

### MOUNTING AND DIMENSIONS























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