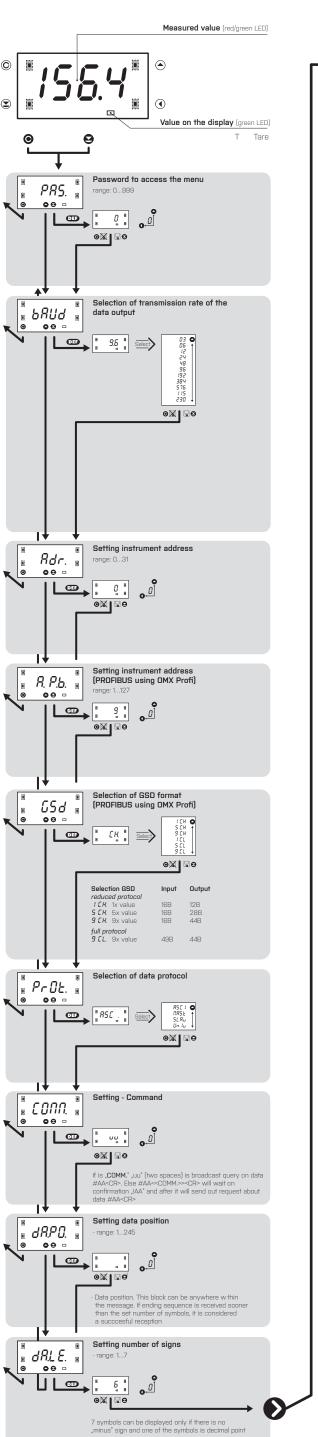
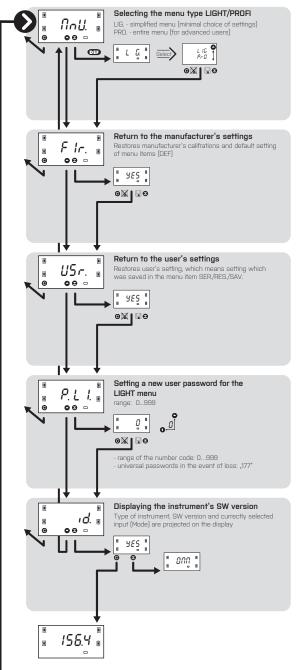


#### Programming diagram of the LIGHT MENU





П In.3 **⊖** 0

UBHS 😝 0 ПЯН.З 😝 100

Selection of "float" input range - min.

- input data format is float according to standard IEEE -754, 32 bits

Setting the first intrductory symbol

SERI. 9 2 - set directly in ASCII code
- range: 1...127

Druhý znak adresy

Setting number sign position (0...245)

Setting the second intrductory symbol

Setting the address position

First address symbol - set directly in ASCII code (0...127)

8dr2 😝 49 - if set to "0", it will not be used

Setting data position [1...245]

Setting number of signs (1...7)

dRLPD ARPD A 1 Data position. This block can be anywhere within the message if ending sequence is received sooner than the set number of symbols, it is considered a successful reception.

Setting the first closing symbol [0...127]

Setting the second closing symbol [0...127]

First symbol of the request (0...127)

Eighth symbol of the request [0...127] - set directly in ASCII code
- If set to "0", request is not sent Setting of communication periode [0,1...1000 s]

0.1 Item will not appear in "MAST." protocol

Selecting display mode in case of communication failure

Setting the time constant for Timeout [0...99,9s] setting the time delay after which the indication of interrupted communication will appear on the display in the mode of "Mo.t.0."

7 symbols can be displayed only if there is no "minus" sign and one of the symbols is decimal point

- set directly in ASCII code - If set to 0, the closing block will not be taken into account

- set directly in ASCII code - If set to 0, the closing block will not be taken into account

Rd Un. 9 Rd PD. 9 c - Position of the address and other symbols which have to have a set value. If set to 0, the block will not be taken into account. The block can be anywhere in the message.

- if set to "O", it will not be used

Selection of "float" input range - max.

### 100.0 - range: 0.3×10 <sup>38</sup> <= |x| <= 1.7×10 <sup>38</sup>

Setting the first intrductors

SER 2 0

**♀** ↑

**♀** ↑

**9** ↑

rE9.1 **⊖** 1

SEOP **↔** SEO.1 **↔** 1

dRLE. ⊖ S

S£02 **⊖** 8

NRH, □ ➡ NRH, □ ➡ □

ô

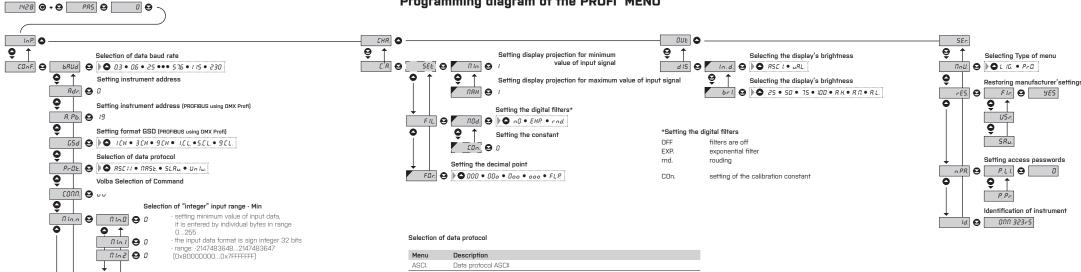
5 IGn. 😝 0 ô

Selection of "integer" input range - Max

ton or integer input range - wax,
setting minimum value of input data,
if is entered by individual bytes in range
0...255
the input data format is sign integer 32 bits
range: -2147483648...2147483847
[0x80000000...0x7FFFFFFF]



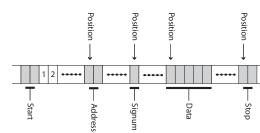
### Programming diagram of the PROFI MENU



Menu	Description
ASCI.	Data protocol ASCII
MAST.	Instrument solicits data from subordinate system - instrument controls data tansmission from subordinate system - "COMM." may be used for selection of received data (for commands see data protoco -instrument asks 10 questions/s, if no response arrives within 2 a the display shows "
SLAV.	Passive display - slave is used where there is communication of other isntruments or a computer in the "MAST." mode. if "COMM." is correctly received, the instrumetris will display the data.
UNIV.	Universal protocol - in dynamic v dynamických items (Start, Adr-Un, Num Sign, Data, Stop, Request) cutom protocol can be set un

#### User data protocol

For a broader usage of the instrument even in non-standard t



f is **"COMM."** "uu" (two spaces) is broadca ouerv on data #AA<CR>.

query on data #AA<CR>. Else #AA<<COMM.>><CR> will wait on confir-mation "IAA" and after it will send out request about data #AA<CR>

Upon delay exceeding 60 s the programming mod is automatically discontinued and the instrumer itself restores the measuring mode

#### **ERROR STATEMENTS**

ERROR	CAUSE	ELIMINATION
E.d	number is too small (large negative) to be displayed	change DP setting, channel constant
E.d. <sup>-</sup>	number is too large to be displayed	change DP setting, channel constant
E. 1.2	Input quantity is smaller than permitted input quantity range	change input signal value or input (range) setting
E. 1.	Input quantity is larger than permitted input quantity range	change input signal value or input (range) setting
E.Hu.	a part of the instrument does not work properly	send the instrument for repair
<i>E.E E.</i>	data in EEPROM corrupted	perform restoration of manufacture setting, upon repeated error statement send instrument for repair
E.5 E.	data in EEPROM outside the range	perform restoration of manufacture setting, upon repeated error statement send instrument for repair
E.CL.	memory was empty (presetting carried out)	upon repeated error statement send instrument for repair, possible failure in calibration
E. 10.	disconnected input circuit	check wiring

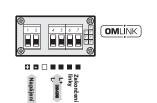
#### CONNECTING AND CONTROLING OF INSTRUMENT

EINE 😝 D. I ô

# 

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

I	NPU	Т
Ī	Tyne	

Туре	RS 485
Protocol	ASCII, MODBUS-RTU, Master, Slave, Universal
Data format	8 bit + no parity + 1 stop bit
Rate	300230 400 Baud
RS 485	isolated, two-way communication, addressing (max. 31 instruments)

### INSTRUMENT'S ACCURACY

TC	50 ppm/°C
Data back-up	stores the measured value after the device has been switched off [EEPROM]
Digital filtres	exponencialn filter, rounding
External inputs	1, termination of commuication line RS 485
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**

Projection	9999
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

IECHANICAL PROPERTIES		
Material	Noryl GFN2 SE1, incombustible UL 94 V-I	
Dimensions	48 x 24 x 72 mm	

i diloi odi odi		10,0 X 2 1,0 11.11	
Е	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	ID 40 (front popul oply)	

### MOUNTING AND DIMENSIONS

198.8

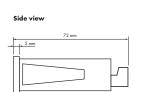












Panel thickness: 0.5...20 mm