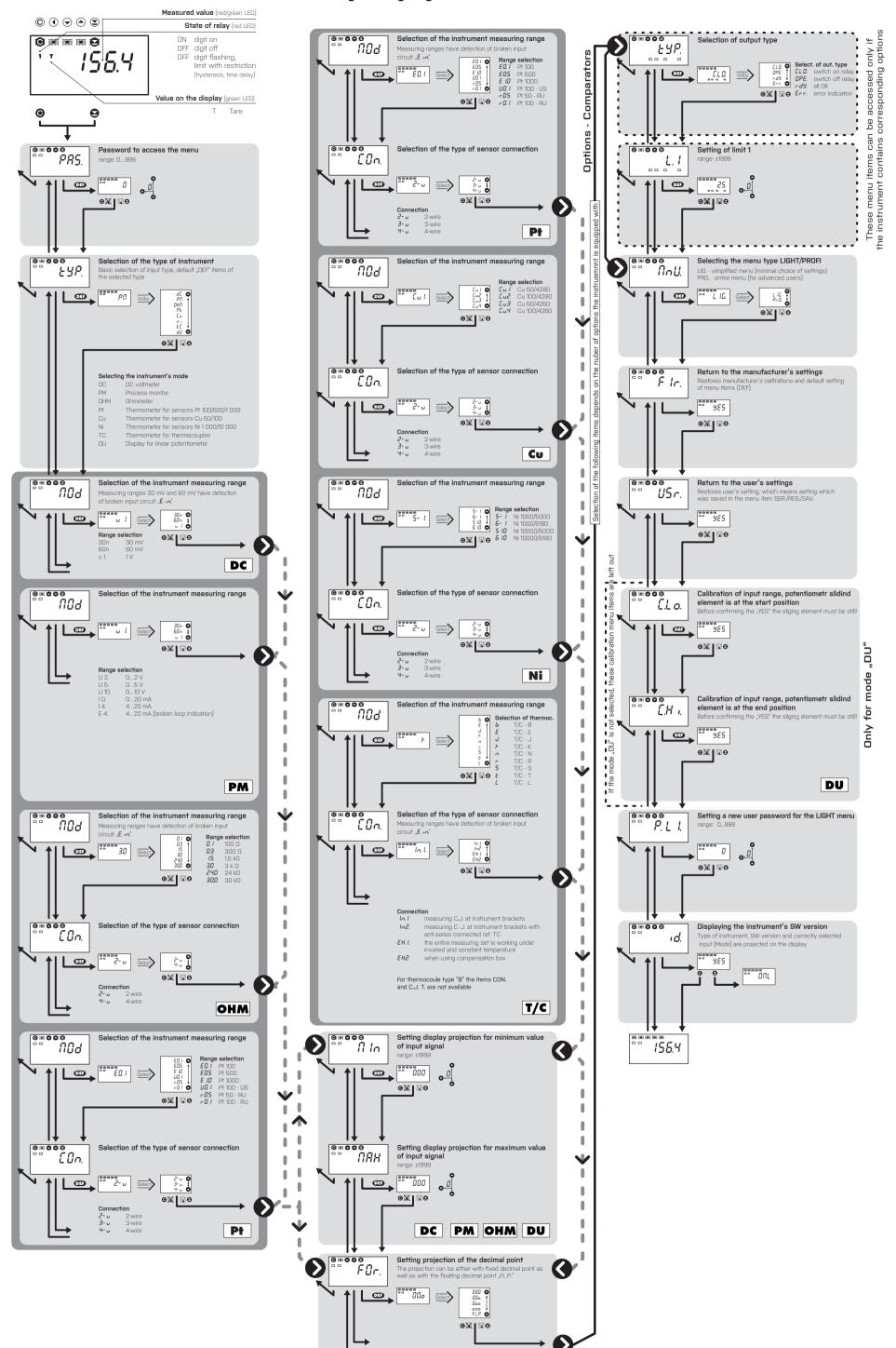


### Programming diagram of the LIGHT MENU



# **OML 343UNI**

Selecting type of menu

Restoring manufacturer's settings

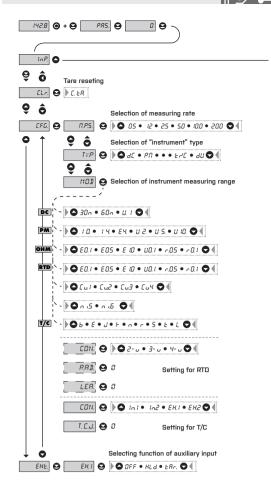
NoU. ⊖ De LIG. • PrO. •

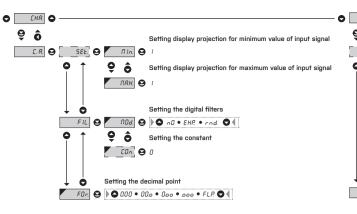
r ES. 😝 F Ir. 😝 YES

**9 ô** 

**9** ô





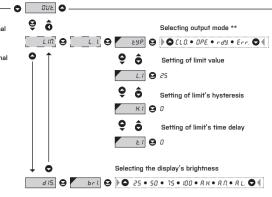


\*Setting the digital filters OFF filters are off

EXP.

exponential filter COn. setting of the calibration constant

rouding



\*Selecting output mode

closing relay (normally open) OPE. opening relay (normally closed) all OK error indication

<b>♀ ♦ ∪</b> 5
<b>♀ ô</b>
Calibratin of the range (DU)  CRL
<b>♀ ♦ ♦</b>
Setting access passwords  APR S P.L. S 0
<b>♀ ô</b>
Identification of instrument  Id. 9 ONL 343Un I

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

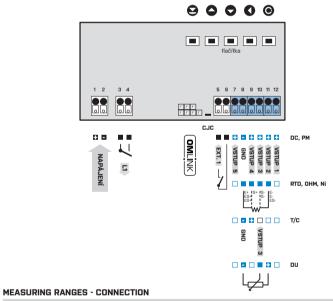
### **ERROR STATEMENTS**

ERROR	CAUSE	ELIMINATION
E.d.U.	number is too small (large negative) to be displayed	change DP setting, channel constant
E.d.O.	number is too large to be displayed	change DP setting, channel constant
E. I.U.	Input quantity is smaller than permitted input quantity range	change input signal value or input (range) setting
E. 1.D.	Input quantity is larger than permitted input quantity range	change input signal value or input (range) setting
Е.Ни	a part of the instrument does not work properly	send the instrument for repair
E.E E.	data in EEPROM corrupted	perform restoration of manufacture setting, upon repeated error statement send instrument for repair
E.dt.	data in EEPROM outside the range	perform restoration of manufacture setting, upon repeated error statement send instrument for repair
E.C.L.	memory was empty (presetting carried out)	upon repeated error statement send instrument for repair, possible failure in calibration
E Io	disconnected input circuit	check wiring

CONNECTING AND CONTROLING **OF INSTRUMENT** 



#### **TECHNICAL DATA**



TYPE	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
DC	01 V		060 mV	020 mV	
PM	05/10 V			020 mA	0/420 mA
ОНМ	0300 Ω/0	1,5 kΩ/03 kΩ/0	30 kΩ		
RTD-PT	Pt 100/Pt 500/Pt 1 000				
RTD-CU	Cu 50/Cu 100	)			
RTD-NI	Ni 1 000/Ni 10	000			
T/C			J/K/T/E/B/S/ R/N/L		
DU	Linear potent	iometer (min. 500	Ω)		

EA I. I	CUI III UIII IY I
	(see. Menu

**EXTERNAL INPUT** 

EXT. 1	controlling input, its function is set in the menu	upon contact, terminal (No. 5 + 6)
	(see, Menu > EXT, IN.)	

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. If this is not possible to provide, the input leads have to be shielded and the shielding grounded (terminal E).

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.

### MEASURING INPUT

		_	±20 mV	> 10 MΩ	Input 4		
	DC	Range	±60 mV	> 10 MΩ	Input 3		
			±1 000 mV	1,25 MΩ	Input 1		
			0/420 mA	< 200 mV	Input 5		
	PM	Range	02 V	> 10 MΩ	Input 4		
			05 V	1,25 MΩ	Input 1		
			010 V	1,25 MΩ	Input 1		
			0300 Ω				
	OHM	Range	O1,5 kΩ				
			03 kΩ				
			030 kΩ				
		Connection	2-, 3- or 4-wire				
		_	EU > 100/500/1 000 Ω, with 3 850 ppm -50°450°C				
	RTD	Туре	US > 100 Ω, with 3 920 ppm/°C	°450°C			
			RU > 50/100 Ω with 3 910 ppm/°C -200°1 100°/450°C				
INPUT	Connection 2-, 3- or 4-wire						
Ni 1 000/ Ni 10 000 with			Ni 1 000/ Ni 10 000 with 5 000		°250°C		
	Ni	Туре	Ni 1 000/ Ni 10 000 with 6 180	ppm/°C -200	°250°C		
		Connection	2-, 3- or 4-wire				
	_	Toma	Cu 50/Cu 100 with 4 260 ppm/	°C -50	°200°C		
	Cu	Туре	Cu 50/Cu 100 with 4 280 ppm/	°C -200	°200°C		
		Connection	2-, 3- or 4-wire				
		_	J (Fe-CuNi)	-200	°900°C		
	T/C	Туре	K (NiCr-Ni)	-200°	1 300°C		
			T (Cu-CuNi)		)°400°C		
			E (NiCr-CuNi)		)°690°C		
			B (PtRh30-PtRh6)		1 820°C		
			S (PtRh10-Pt)		1 760°C		
			R (Pt13Rh-Pt)		1 740°C		
			N (Omegalloy)		1 300°C		
			L (Fe-CuNi)		)°900°C		
	DU	Lin. pot.supply	2,5 VDC/6 mA, min. potentiome	ter resistance	is 500 Ω		

### **INSTRUMENT'S ACCURACY**

TK	50 ppm/°C
Accuracy	±0,15% of the range + 1 digit ±0,3% of the range + 1 digit (T/C)
Accuracy of cold junction measurement:	±0,1°C
Rate	0,520 measurements/s
Overload capacity:	10x (t < 30 ms) - not for > 200 V and 5 A; 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 filtres	exponencialn filter, rounding
Functions	Hold - "freezing the measured value", Lock - blocking the control buttons, Tare (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.v.

### PROJECTION

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	

## COMPARATOR

Туре	digital, menu selectable	
Mode	Hysteresis, Once, Pulse	
Limit	±1999	
Hysteresis	01999	
Delay	099,9 s	
Output	1x relay with a switch on contact (Form A), (250 VAC/30 VDC, 3 A)* 1x open collector, (30 VDC/100 mA)*	
Relay	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300	

#### POWER SUPPLY 10...30 VDC/24 VAC, ±10 %, 3 VA, isolated

MECHANICAL PROPERTIES		
	Material	Noryl GFN2 SE1, incombustible UL 94 V-I
	Dimensions	96 x 48 x 30 mm
	Panel cut out	92 x 44mm

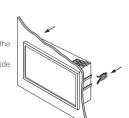
### ENVIROMENTAL

ENVIROMENTAL	
Connection	terminal board, section < 1,5 mm <sup>2</sup>
Stabilization period	15 minutes after switch on
Working temperature	-20°60°C
Storage temperature	-20°85°C
Cover	IP65 (front panel only), rear of the instrument is open!
Provedení	security calss I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC after 1 min between supply and input 4 kVAC after 1 min between supply and relay output
Insulation resistance*	for pollution degree II, measuring cat. III. power supply > 300 V (PI) input, output > 300 V (DI)
EMC	EN 61326-1 (Industrial area)

### MOUNTING AND DIMENSIONS



3. press the sliders tightly aginst the rear side

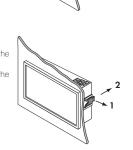


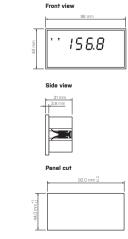
Removal of the instrument

1. pry the rear end of the sliders away from the instrument's enclosure

2. slide the fixating sliders out of side groves of the

3, remove the instrument from the panel cutout















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