

## 7. MENU'S PARAMETERS Parameters settable from Menu :

Symbol	Farameter Name	Description and setting range	Value
PASS	Password for the	Setting a value diffferent from <b>5477</b> , the password (always 5477) will be required at the start of the menu.	

	Parameters :	settable from Menu : / .n.P. と.	
Parameter	Parameter Name	Description and setting range	Default
Symbol			Value
£УРЕ	Input Type	1 = Voltage         6 = TC R         11 = TC N           2 = Current         7 = TC S         12 = PT100 (2 wires)           3 = Potentiometer 8 = TC T         13 = PT100 (3 wires)           4 = TC J         9 = TC B         14 = PT100 (4 wires)           5 = TC K         10 = TC E	2 : Current
SSEN	ECA	MI002501-I-E ENGLIS	SH - 5/21

8. ERROR SIGNALLINGS The errors are directly viewed through display. We are going to list all the possible signallings with the correspondent meaning: non: Instantaneous value of display > H - d value of the 2.5% or if the instantaneous value > maximum displayable.

maximum displayable. WUUL: Instantaneous value to display < L0-d value of the 2.5% or instantaneous value to display < minimum displayable. bUn-: BUrn-void of the temperature sensor. SEr-r: communication error with the cold junction thermometer. EEr-r: at the start may signal an error on the calibration memory. The functioning of the module is blocked while the Modobus communication is available.

Э.	ORDER	CODES

Code					Description
Model	S312A				Indicator with universal analog input, 4 relays.
Display		-4			4 digits
Power S	upply		-H		85265 VAC
			-L		1040 VDc / 1928 VAc
Output r	relay			4R	4 output relay
Options				/Т	Calibration and configuration Service

10.	MOD	вus	REG	ISTERS

10. MODBUS REGISTERS
The S312A-4-L-4R and S312A-4-H-4R lines indicators have MODBUS 16 bits (words)
registers, accessible by RS485 serial communication.
10 1 Supported MODBUS Commands

Code	Function	Description
03	Read Holding Registers	Reading of word registers up to 16 at a time.
06	Write Single Register	Writing of a word register.

10	write multiple Registers	winning of word registers up to ro at a time.

S SENECA	MI002501-I-E ENGI	-ISH -	9/21	<b>SSENE</b>
CONTRAST	Display contrast	40013	R/W	SET4
Bit [15:8]	Set the display contrast: values from 1 (minimum constrast) to 20 (maximum contrast). Default: 10.			Bit [15:0]
Bit [7:0]	Notused			HYS4 Bit [15:0]
SET1	Alarm 1 Threshold	40014	R/W	2.17.0.07
Bit [15:0]	Alarm 1 threshold: value referred to the view scale but without decimal point. For example if the value referred to the view scale is 20,0 sets 200. See <b>HI_T</b> for parameter limits. Default: 1000.			ні_т
HYS1	Alarm 1 Hysteresis	40015	R/W	
Bit [15:0]	Alarm 1 hysteresis: value referred to the view scale but without decimal point. For example if the value referred to the view scale is 10,00 sets 1000. See HI_T for parameter limits. Default: 10.			Bit [15:0]
SET2	Alarm 2 Threshold	40016	R/W	
Bit [15:0]	Alarm 2 threshold: value referred to the view scale but without decimal point. For example if the value referred to the view scale is 20,0 sets 200. See <b>HI_T</b> for parameter limits.			LO_T Bit [15:0]
HYS2	Default: 1000.			
Bit [15:0]	Alarm 2 hysteresis Alarm 2 hysteresis: value referred to the view scale but without decimal point. For example if the value referred to the view scale is 10,00 sets 1000. See HI_T for parameter limits. Default: 10.		<u> R/W</u>	HI D
				hi_D
SET3 Bit [15:0]	Alarm 3 Threshold Alarm 3 threshold: value referred to the view scale but without decimal point. For example if the value referred to the view scale is 20,0 sets 200. See HLT for parameter limits. Default: 1000.		R/W	Bit [15:0]
HYS3	Alarm 3 Hysteresis	40019	R/W	LO_D
Bit [15:0]	Alam 3 hysteresis: value referred to the view scale but without decimal point. For example if the value referred to the view scale is 10,00 sets 1000. See <b>HI_T</b> for parameter limits. Default: 10.			Bit [15:0]
<b>SSENECA</b>	MI002501-I-E ENGLI			<b>SSENE</b>

Relay output:		Capacity:5A	/250 Vac.				
Sampling Fre		Fixed: 2 Hz.					
Response Tir		700 ms.					
	al Conditions:		-10 60°C H	umidity min: 30%	6 max 90% at		
Linnonin		40°C non-co	ndensing.	-	o, max 0070 a		
Errors referre measuring ra		Calibration Error	Thermal Coefficient	Linearity error	Others		
Voltage/Curre		0,1%	0,01%/°K	0,05%	EMI (2):<1%		
Input for ther J,K,E,T,N:		0,1%	0,01%/°K	0,5 °C	EMI (2): <1%		
Input for The R,S:	rmocouples:	0,1%	0,01%/°K	1 °C	EMI (2): <1%		
Input for The B :	rmocouples:	0,1%	0,01%/°K	2 °C	EMI (2): <1%		
Cold junction	compens.:	" 1,5 °C			•		
Potentiomete	er:	0,1%	0,01%/°K	0,1%	EMI (2): <1%		
Thermoresist		0,1%	0,01%/°K	0,2%	EMI (2): <1%		
Voltage/Curre	ent Output :	0,1%	0,01%/°K	0,05%	EMI (2): <1%		
Isolation :		1500 V amor	ng each pair of j	ports			
Connections	:		screw terminals	s, pitch 3,5 mm / 5, ragation.	.08 mm.		
Protection De		IP65 (on the frontal panel with the provided seal)					
Dimensions	(L x W x H)	98,2 x 88,5 x 48 mm					
Standards		EN61000-6-4/2002-10 (electromagnetic emission, industrial					
			ansformer must comply with EN60742: "Isolated ansformers and safety transformers".				
Tabl	le: TC Range	e _	TC Admitte YPE Range J -210120 K -200137 E -200100 N -200130	■         TYPE           0 °C         S         -50           2 °C         R         -50           0 °C         B         250	Admitted Range 1768 °C 1768 °C 1820 (3) °C 00400 °C		
2) EMI: electr	omagnetic inter	ferences.					
(3) Up to 250	°C, the output is	considered e	equivalent to a i	null temperature.			
-							
SSEN	ECA	MIC	02501-I-E	ENC	GLISH - 2/21		
	ECA Electrical Start				GLISH - 2/21		
SENI		Only for in Start scal input) or % It defines associate d). <u>Settable \</u> Values in maximum type.	put type 1, 2 and e in V (voltage 6 (potentiomete also the value d to the minimu <u>Values</u> cluded betwee	d3. input) or mA (cur r). e of the input sig m value of view ( on the minimum for the secleted in	rent 4,00 (mA)		

d). <u>Settable Values</u> Values included between the minimum and maximum limits specified for the secleted input

Description and setting range

Display Digits Min. Limit Max. Limit

-1999 9999

Default

1000

0 = No

lecima point

0 = ° C

0 = No filter

ENGLISH - 6/21

Value

Parameters settable from Menu : 5, [, A, L,

Only for inputs 1, 2 and 3.

Inputs 1, 2 and 3 0 = no decimal point (ex 1234), 1 = first digit (es 123.4) ... ... N display digit-1

**Femperature Measurement** = resolution: °C (°F). = resolution: °C/10 (°F/10).

) = Celsius degrees. I = Fahrenheit degrees.

MI002501-I-E

Register for the secting of the input ty the temperature measure unit. Set the input type: 1 : Voltage. 2 : Current 3: Potentiometer, 4: Thermocouple J 5: Thermocouple K, 6: Thermocouple R 7: Thermocouple K, 8: Thermocouple T 9: Thermocouple N, 10: Thermocouple R 11: Thermocouple N, 12: PT100 (2 wires) 13: PT100 (3 wires), 14: PT100 (4 wires) Notused

Not used Temperature in Celsius or Fahrenheit degrees:

Register containing the internal code of the 40002 R

firmware. Register for the setting of the input type and of 40003 R/W

 Temperature in cellsus or Fahrenneit degrees:

 0°: Celsius
 1: Fahrenheit

 Electrical Full Scale of the input in V/100, MA/100 or %/100
 40004

 Full scale in Voll/100, mA/100 or %/100 respectively
 for input types 1, 2 and 3. This value must be included between the minimum and maximum specified for each input. Besides this parameter defines the value of the input signal associated to the maximum instantaneous value of view: HI\_D.

 Min :0, Max: 9999. Default: 2000.

Electrical Start Scale of the input in V/100, 40005 R/W

ENGLISH - 10/21

40020 R/W

Electrical Start Scare or use imparted or %/100 Start scale in Volt/100, mA/100 or %/100 respectively for input types 1, 2 and 3. This value must be included between the minimum and maximum specified for each input. Besides this parameter defines the value of the input signal associated to the minimum instantaneous value of the input 400.

associated to the minimum instantaneous val view: LO\_D. Min:0, Max:9999. Default:400.

Alarm 4 Threshold Alarm 4 threshold: value referred to the view scale

MI002501-I-E

The 16-bit Holding Registers have the following structure: Most significant Bit Bit Index Least significant bit

4

Symbol

L D- d

ні – d

dР

FRHr

FILE **SSENECA** 

FW CODE

Bit [15:8]

Bit [7:1] Bit 0

Bit [15:0]

LO\_E

Bit [15:0]

HI\_E

TYP\_INP\_CEL\_FAHR

Start scale of

Full scale of stantaneous vi

Decimal Point position on the

Temperature

neasurement in ° C or ° F Filter Level

ling Registers

nstanta

### 3. RELAYS AND JUMPER POSITION To extract the boards from S312A bo. 1) remove the screw terminals from proceedings of terminals from procedings of terminals from p RELAY ¥ ear panel 2) press inwards the box on the top panel (where there is the serigraphy) and, at the same time, press inwards the box on the bottom panel REL the box on the bottom panel 3) extract the display indicator 4) extract the boards from box. Boards are as in the following figure. \*NOTE: DEFAULT: N.O. means «NORMALLY OPEN» 00000000000 90 JUMPER (DEFAULT:N.O.) A DOOL JUMPER (DEFAULT:N.O.) 4. FUNCTIONING DESCRIPTION The measured or integrated input value is translated into an analog output signal. The instantaneous measurement of the input is displayed. The values are also available via Modbus RTU protocol upon query by RS485 bus.

All Setting Modalities All the parameters of the instrument may be set by the programming Menu or RS485. The alarms thresholds may be quickly set by the *Quick Alarm Menu*. Besides the software has been developed for the programming and the configuration of the module (consult the web site www.seneca.it).

The instrument allows the following retransmission modalities: **Analog Output**: The measured input value is translated into an analog output signal (voltage or current).

 4.3 Alarms on the Analog input Four alarms may be activated on the instantaneous value of the input. Each alarm may be set on the following way: 1)Alarm on the minimum thershold. 2) Alarm on the minimum thershold. (the reset is not automatic). 3) Retained Alarm on the minimum threshold (the reset is not automatic).
4) Retained Alarm on the maximum threshold (the reset is not automatic).
For each alarm, it is possible to set Threshold and Hysteresys. If the alarm is set as high, the alarm is more threshold and Hysteresys; instead if the alarm is set as low, the alarm condition will end when if the input value is Threshold-Hysteresys; instead if the alarm is set as status is displayed by four leds on the frontal panel and by the relays. The alarm condition and return to the initial status at the end of the alarm condition or at the reset (if retained). The retained is the retained for a more there are the reset of the relation of the retained for a more there are the reset of the relation.

S SENECA	MI002501-I-E	ENGLISH - 3/21
----------	--------------	----------------

Alarm 2 par Alarm 3 par	ameters: accessible ameters: accessible ameters: accessible ameters: accessible	from R.L.2 menu ai from R.L.3 menu ai	nd identified by nd identified by	the final index 2 the final index 3				
Parameter Symbol	Parameter Name	Descripti	Description and setting range					
SEE I	Alarm 1 Threshold	Value referred to point set by dP).			1000			
SEF5	Alarm 2 Threshold	Temperature inpu FRHr (°C or °F).			1000			
HY5 I	Alarm 1 Hysteresys	Settable value on Display Digits	the following ra	anges: Max. Limit	10			
HY52	Alarm 2 Hysteresys	Number 4	-1999	9999	10			
ЕЯЬ І	Alarm 1 Type		= Alarm disabled = Alarm on the minimum threshold					
FRb5	Alarm 2 Type	3 = Retained alar (the reset is not au 4 = Retained alar	= Alarm on the maximum threshold = Retained alarm on the minimum threshold he reset is not automatic) = Retained alarm on the maximum threshold he reset is not automatic)					
rLy I	Relay 1: N.O./N.C.	Relay Functioning 0 = relay normally		\	0: N.C			
rL92	Relay 2: N.O./N.C.	1 = relay normally			0: N.0			
SEEB	Alarm 3 Threshold	Value referred to point set by dP).			1000			
SEE4	Alarm 4 Threshold	Temperature inpu FRHr (°C or °F).			1000			
HY53	Alarm 3 Hysteresys	Settable value on Display Digits	the following ra	anges: Max. Limit	10			
H954	Alarm 4 Hysteresys	Number 4	-1999	9999	10			
ЕЯРЭ	Alarm 3 Type	0 = Alarm disabled 1 = Alarm on the m	1 hinimum thresh	old	0: Al : disable			
ЕУРЧ	Alarm 4 Type	3 = Retained alar (the reset is not au 4 = Retained alar	2 = Alarm on the maximum threshold 3 = Retained alarm on the minimum threshold the reset is not automatic) 4 = Retained alarm on the maximum threshold the reset is not automatic)					
rLY3	Relay 3: N.O./N.C.	Relay Functionin 0 = relay normally		、 、	0: N.C			
	Relay 4: N.O./N.C.	0 = relay normally 1 = relay normally			0: N.C			

REAR SIDE: TERMINALS The Quick Alarm Menu is instead password free 5. BUTTONS AND TERMINALS POSITION FRONTAL PANEL: BUTTONS AND LEDS Relay Relay Relay Relay 20 19 18 17 16 15 14 13 12 11 Led Alarm 3/1 Led 23 22 21 8888 rm 4/2 A4 A2 78910 1 2A2B 0000 SENECA DOWN UP OK/MENÙ 6. ELECTRICAL CONNECTIONS POWER SUPPLY: Verify the code on the applied labe Code S312A-4-L-4R Code S312A-4-H-4R 10 ÷ 40 V<sub>DC</sub> 19 ÷ 28 V<sub>AC</sub> 3.0 W - O 2A 85÷265 VAC 3.0 W 2B -0 MA input VOLTAGE INPUT mA input (2 wires) Ø 7 Ø 8 Ø 9 Ð **Ø** 10 0 10 **Ø** 10 The loop is powered by the module (17 V Loop) The loop is powered by the sensor PT100 INPUT 3 wires 4 wires 2 wires ×0 8 Ł Ę F Ł 0 9 10 0 9 **~0** 9 **0** 10 0 10 THERMOCOUPLE INPUT POTENTIOMETER INPUT 68 R=330 Ω 6 8 **-0**9 **Ø** 10 Resistance R=330 Ω (not provided)  $P=1 k\Omega \div 100 k\Omega$ **SSENECA** MI002501-I-E ENGLISH - 4/21

Parameters settable from Menu :

ogramming Menu by password.

4.4 Password for access to the menu

0.0.2.					
Parameter Symbol	Parameter Name	Description and setting range		Default Value	
LD-E	Instantaneous display value associated to the	Limits for the scaling of the retransmitted output. Decimal point set by d <sup>p</sup> .			0
	minimum value of the output.	Display Digits Number	Min. Limit	Max. Limit	
HI - E	Instantaneous display value	4	-1999	9999	1000
	associated to the maximum value of the output.				
ЕЯРЕ	Retransmitted output type	1 = 010 V 2 3 = 020 mA	=420 mA		2: 420 mA
Pa	rameters settable	from Menu : 🏻 🏻 🏻 🛓	Ь.Ш.5.		
Parameter Symbol	Parameter Name	Description	n and setting	y range	Default Value
Addr	MODBUS Address	Settable Values: from	m 1 to 255.		1
PAr	Parity control	0 = None 1 =	= Even	2 = Odd.	0: None
dEL	Delay of the response	Number of pauses entered between th and the start of the T	he end of the	e Rx message	0: No Delay
ьяид	Serial communication speed	Serial communication 0 = 4800 $3 = 381 = 9600$ $4 = 572 = 19200$ $5 = 11$	8400 6 7600 7	6=1200 7=2400	3: 38400
2=19200 5=115200 8=14400 Parameters settable from Menu : 5 4 5					
Parameter Symbol	Parameter Name	ے ہے ہے ہے۔ ہے اور		Default Value	
EOnt	Display Contrast	Values : 1 (minimum	,	20 (maximum).	10
bürn	Burn out (with PT100 or TC)	0 = Full scale value in 1 = Start scale value If the value is set retransmitted output value is set to the st (minimum) alarms a	e indication et to full s it goes to the tart scale) an are activated.	100% (0% if the d the maximum	0: Full scale Indicat.
dFLE	Default Settings	1 = Overwrite the s values.	set values w	ith the default	
E.H.I .E. By confirming with <b>OK/MENÜ</b> all the parametes are saved in flash memory and after some instants the module is reset.				ed in	
SENECA MI002501-I-E ENGLISH - 8/21					

DP/FILTER	Decimal point position.	40006	R/W
Bit [15:8]	Decimal point position: 0° = decimal point absent (ex. 1234), 1 = first digit (ex. 1234), 2 = second digit,, N display digits-1. For temperature measurements: 0: °C (°F) resolution, 1: °C/10 (°F/10) resolution.		
Bit [7:0]	Set the filter level. Admitted values: 0* = no filter, 120.		
TYP_AL1/RLY1	Sets the normal status of relay 1 and alarm 1 type.	40007	R/W
Bit [15:8]	Set the Alarm 1 functioning: 0° = Alarm disabled 1 = Alarm on the minimum threshold 2 = Alarm on the maximum threshold 3 = Retained alarm on the minimum threshold (reset is not automatic) 4 = Retained alarm on the maximum threshold (reset is not automatic)		
Bit [7:1]	Not used		
Bit 0	Sets the relay 1 functioning: 0* = normally opened 1 = normally closed		
TYP_AL2/RLY2	Sets the normal status of relay 2 and alarm 2 type.	40008	R/W
Bit [15:8]	Set the Alarm 2 functioning: 0° = Alarm disabled 1 = Alarm on the minimum threshold 2 = Alarm on the maximum threshold 3 = Retained alarm on the minimum threshold (reset is not automatic) 4 = Retained alarm on the maximum threshold (reset is not automatic)		
Bit [7:1]	Notused		
Bit 0	Sets the relay 2 functioning: 0* = normally opened 1 = normally closed		
S SENECA	MI002501-I-E ENGLI	SH - 1	1/21

Register for the setting of the Modbus address 40026 R/W ADDR

### TYP\_AL3/RLY3 Sets the normal status of relay 3 and alarm 3 40009 R/W et the Alarm 3 functioning Bit [15:8] 0 = Alarm of the additional of not automatic) 4 = Retained alarm on the maximum threshol (reset is not automatic) Not used Bit [7:1] Sets the relay 3 functioning: 0\* = normally opened Bit 0 I = normally closed I = normally closed Sets the normal status of relay 4 and alarm 4 40010 R/W Vype. Setthe Alarm 4 functioning: 0" = Alarm on the minimum threshold I = Alarm on the minimum threshold Z = Alarm on the minimum threshold = Related alarm on the minimum threshold TYP\_AL4/RLY4 Bit [15:8] 3 = Retained alarm on the minimum threshold (rese is not automatic) 4 = Retained alarm on the maximum thresho (reset is not automatic) Not used Bit [7:1] Sets the relay 4 functioning: Out on the by Y-normally opened 1 = normally closed Enables / clisables the password for the access to the programming menu. By setting a value different from \$477, at the start of the programming menu the password (always \$477) will be required. Default: \$477. PASSWORD Bit [15:0] Sets the behavior in case of Burn Out (PT100 40012 R/W or TC) and output type TYP\_OUT/BURN Set the retransmitted output type: 1 = 0..10 V output $2^* = 4..20$ mA output Bit [15:8] 3 = 0..20 mA outputBit [7:1] Behavior in case of PT100 or Thermocouple Bu Bit 0 0\* = Full scale indication = Start scale indication. **SENECA** ENGLISH - 12/21 MI002501-I-E mV\_TC\_FL\_MSW

Voltage in mV\_read from the therm (Floating point, most significant word). uple 40074 R

Bit [15:0]	but without decimal point. For example if the value referred to the view scale is 20,0 sets 200. See <b>HI_T</b> for parameter limits. Default: 1000.		
HYS4	Alarm 4 Hysteresis	40021	R/W
Bit [15:0]	Alarm 4 hysteresis: value referred to the view scale but without decimal point. For example if the value referred to the view scale is 10,00 sets 1000. See HI_T for parameter limits. Default: 10.		
HI_T	Displayed value correspondent to the maximum value of the analog output	40022	R/W
Bit [15:0]	Displayed input value corresponding to retransmitted output maximum value. Set the value referred to the view scale but without decimal point. Example: if the value referred to the view scale is 10,0, set 100. Default: 1000. Min value: -1999 Max value: 9999		
LO_T	Displayed value correspondent to the minimum value of the analog output	40023	R/W
Bit [15:0]	Displayed input value corresponding to retransmitted output minimum value. Set the value referred to the view scale but without decimal point. Example: if the value referred to the view scale is 10,0, set 100. Default: 0. Min. and Max value: see H_T		
HI_D	Full Scale value of instantenous view	40024	R/W
Bit [15:0]	Set the full scale value of the view scale. Only for input 1, 2 and 3. The decimal point on the set integer value is given by dP. Default: 1000. Min and max values: see HI_T.		
LO_D	Start Scale value of instantenous view	40025	R/W
Bit [15:0]	Set the start scale value of the view scale. Only for input 1, 2 and 3. The decimal point on the set integer value is given by dP. Default: 0. Limits value:see HI_T.		
<b>SSENECA</b>	MI002501-I-E ENGLIS	SH - 14	/21

Bit [15:8]	Set the module's address. Permissible values from 0x01 to 0xFF (decimal values in the range of 1-			
	255). Default: 1.			
Bit [7:0]	Set the control parity type:			
Bit [1:0]	00000000 *: No parity (NONE)			
	00000001 : Even parity (EVEN)			
	00000010 : Odd parity (ODD)			
BAUDR	Register for the setting of the Baudrate and	40027	DAM	
DAUDIN	the response delay time in characters.	40027	FC/ VV	
D# ME.01	Serial communication speed in Baud:			
Bit [15:8]	00000000 (0x00): 4800 00000100 (0x04): 57600			
	00000001 (0x01): 9600 00000101 (0x05): 115200			
	00000010 (0x02): 19200 00000110 (0x06): 1200			
	00000011*(0x03): 38400 00000111 (0x07): 2400 00001000 (0x08): 14400			
Bit [7:0]	Response delay time. It represents the number of			
	pauses of 6 characters each to be entered between			
	the end of the Rx message and the start of the Tx			
	message. Default value: 0.			
RESET	Module's Reset	40058	R/W	
Bit [15:0]	-By writing 0xC1A0, the module is reset.			
STATUS	Errors and alarms Signalling.	40059	R	
Bit [15:9]	Not used.			
Bit 8	1: Alarm 2 active.			
Bit 7	1: Alarm 1 active.			
Bit 6	1: if the value to view is < L0-d of the 2,5 % or			
	temperature sensor under range.			
Bit 5	1: If the value to view is > HI - d of the 2,5 % or the			
	temperature sensor is over range.			
Bit 4	1: Temperature Sensor Burn-out			
Bit 3	Not used			
Bit 2	1: Failure on the cold junction thermometer			
	initialization.			
Bit 1	1 : Fault on cold junction thermometer.			
Bit 0	1: Calibration Eeprom damaged			
	Contact Seneca srl to solve the problem.			
FLOAT REAL MSW	Measure in % if input is potentiometer (Floating	40060	R	
	point format, most significant word).			
FLOAT REAL LSW	Measure in % if input is potentiometer (Floating	40061	R	
	point format, least significant word).			
DISPLAY	Displayed value	40064	R	
NO STORT NOW	Cold junction voltage in mV (Floating point	40072	R	
mV_CJ_FLOAT_MSW		40072	ĸ	
mV CJ FLOAT LSW	Cold junction voltage in mV (Floating point	40070	-	
IIIV_CO_I LOAI_LOW	format, least significant word).	40073	R	
OCTNICOA				

MI002501-I-E

IIIV_10_1 L_LOW	(Floating point, least significant word).	40075	
TEMP_TC_FL_MSW	Temperature in °C read from the thermocouple (Floating point, most significant word).	40076	R
TEMP_TC_FL_LSW	Temperature in °C read from the thermocouple (Floating point, least significant word).	40077	R
TEMP_CJ_SHORT	Cold junction temperature in 1/256 of °C.	40078	R
Rx_FLOAT_MSW	Resistance in Ohm if PT100 (Floating point format, most significant Word).	40079	R
Rx_FLOAT_LSW	Resistance in Ohm if PT100 (Floating point format, least significant Word).	40080	R
TEMP_RTD_FL_MSW Temperature read from PT100 in °C (Floating point format, most significant word).		40081	R
TEMP_RTD_FL_LSW Temperature read from PT100 in °C (Floating point format, least significant word).		40082	R
Rx_short	Measured resistance if PT100 ( in $\Omega/100$ )	40083	R
mVOLT_FL_MSW	Measurement in mV in case of voltage input (Floating point format, most significant word).	40084	R
mVOLT_FL_LSW	Measurement in mV in case of voltage input (Floating point format, least significant word).	40085	R
μAMPER_FL_MSW	Measurement in $\mu A$ in case of current input (Floating point format, most significant word).		R
μAMPER_FL_LSW	Measurement in $\mu A$ in case of current input (Floating point format, least significant word).	40087	R

# Disposal of Electrical & Electronic Equipment (Applicable throughout the European Union and



Bit 0

TEM Rx\_ mVC

Disposal of Electrical & Electronic Equipment (Applicable throughout the European union encoding European counties with separate collection programs). This symbol, found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuing this product is disposed of correctly, you with ho dispose of it. Instead, it should not be environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve natural resources. For more detailed information about the recycling this product, these contact your local city office, waste disposal service on the related store where you purchased this product.

This document is property of SENECA srl. Duplication and reprodution are forbilden, if not authorized. Conten of the present documentation refers to products and technologies described in it. All technical data contained in th document may be modified without prior notice Content of this documentation is subject to periodical revision.

MI002501-I-E



SENECA s.r.l. Via Germania, 34 - 35127 - Z.I. CAMIN - PADOVA - ITALY Tel. +39.049.8705355 - 8705359 - Fax +39.049.8706287 e-mail: info@seneca.it - www.seneca.it



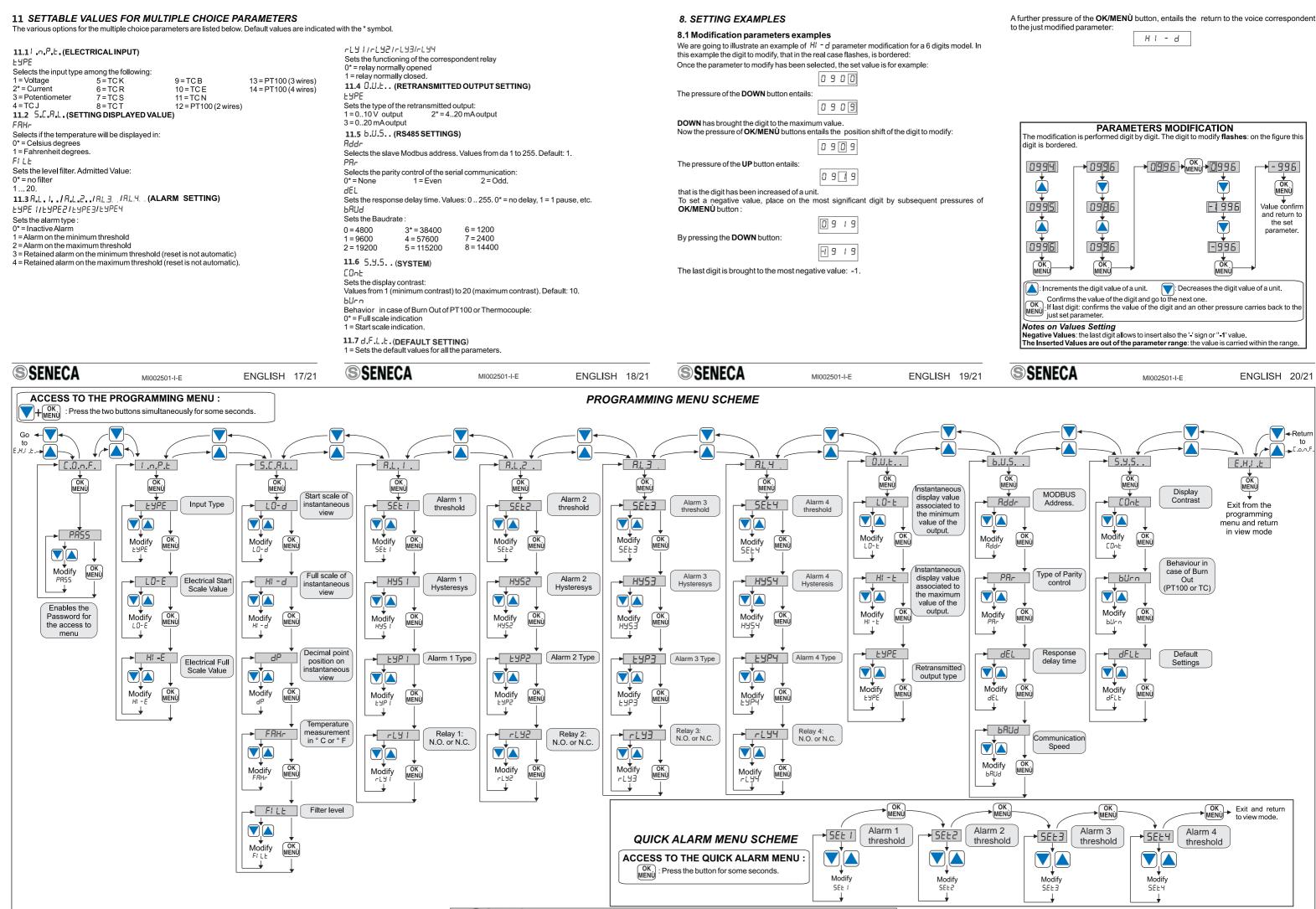


**SSENECA** 

ENGLISH - 15/21

**SENECA** 

ENGLISH - 16/21



MI002501-I-F

**SSENECA** 

ENGLISH - 21/21

