SENECA S311AK Analogue Panel Indicator with 4-Digit Display Installation Guide

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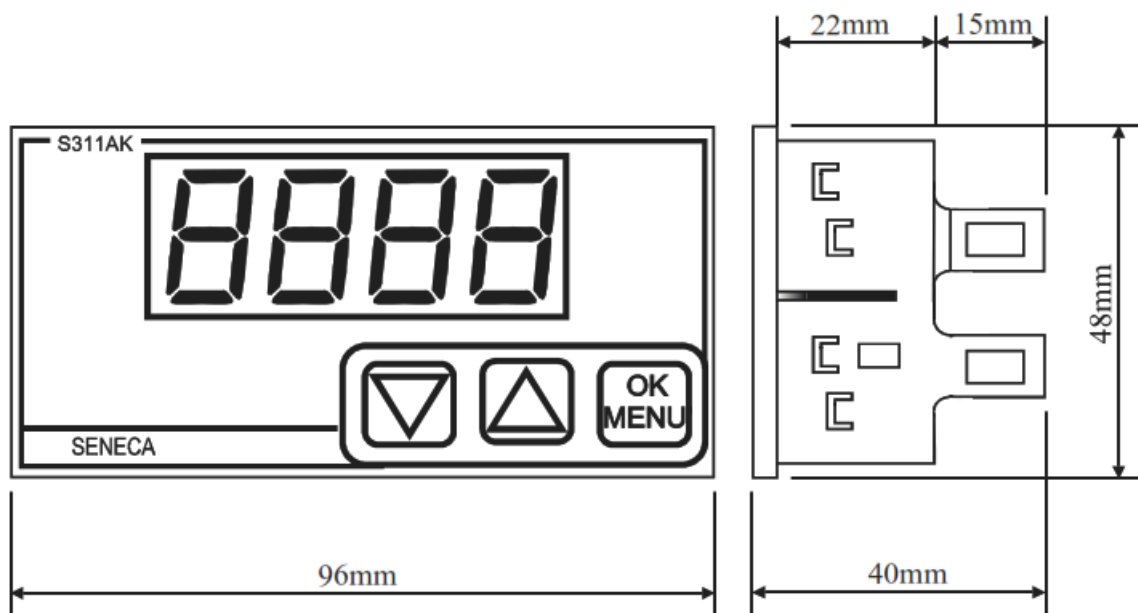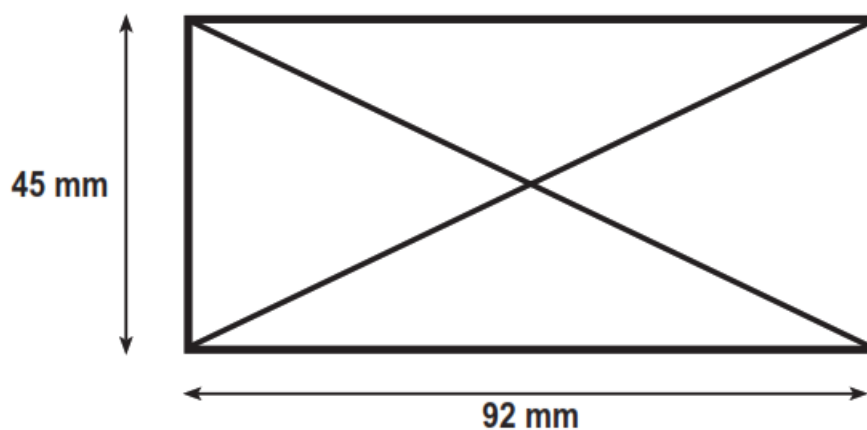
MI00173-6-EN

Contents

MODULE LAYOUT

Weight: 100 g;
Enclosure: UL94-V0 self-extinguishing PC/ABS material, black.
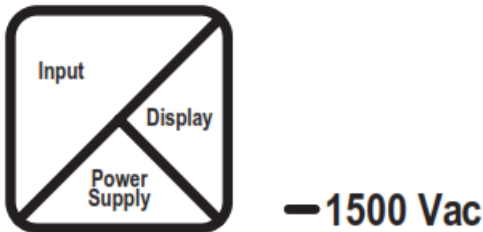
DRILLING TEMPLATE

PRELIMINARY WARNINGS

The word **WARNING** preceded by the symbol ⚠ indicates conditions or actions that put the user's safety at risk.

The word **CAUTION** preceded by the symbol ⚠ indicates conditions or actions that might damage the instrument or the connected equipment. The warranty shall become null and void in the event of improper use or tampering with the module or devices supplied by the manufacturer as necessary for its correct operation, and if the instructions contained in this manual are not followed.

⚠	**WARNING**: The full content of this manual must be read before any operation. The module must only be used by qualified electricians. Specific documentation is available using the QR-CODE shown on page 1.
	The module must be repaired and damaged parts replaced by the Manufacturer. The product is sensitive to electrostatic discharges. Take appropriate measures during any operation.
	Electrical and electronic waste disposal (applicable in the European Union and other countries with recycling). The symbol on the product or its packaging shows the product must be surrendered to a collection center authorized to recycle electrical and electronic waste.

TECHNICAL SPECIFICATIONS

STANDARDS	EN61000-6-4 Electromagnetic emissions, industrial environment. EN61000-6-2 Electromagnetic immunity, industrial environment. EN60950 Safety
INSULATION	
POWER SUPPLY	Voltage: 10 = 40 Vac, 19 ÷ 28 Vdc; max. absorption 0.9 W
ENVIRONMENTAL CONDITIONS	Temperature: -10°C ÷ +65°C Humidity: 30% ÷ 90% non condensing. Storage temperature: -30°C = + 85°C Altitude: up to 2000 m above sea level
ERRORS	REFERRING TO THE MEASUREMENT RANGE FOR INPUT VOLTAGES AND CURRENTS
SOLUTION	16 bit 40000 points max
ACCURACY	0.05%
THERMAL COEFFICIENT	0'005 %°K
LINEARITY ERROR	0.05%
SENSOR POWER SUPPLY	16V (Max 25mA)
CONNECTIONS	2-way removable screw terminals, 5.08 mm pitch (Supply) 3-way removable screw terminals , 5.08 mm pitch (Inputs)

INSTALLATION REGULATIONS

The module is designed to be panel-mounted. For optimal operation and duration, ensure adequate ventilation. Avoid mounting modules over heat-generating equipment.

MENU PARAMETER MODIFICATION

The modification is done digit by digit. The digit to be modified flashes: in the figure, this digit is larger than the others.
The example diagram below refers to 4-digit indicators.

△	Increases the value of the figure by one unit.
▽	Decreases the value of the digit by one unit.
OK MENU	Confirms the value of the digit and moves to the next one. If the last digit: confirms the value of the digit and subsequent pressing returns to the parameter just set.

N.B.: Negative values:
The last digit allows entering even the "-" or the value "-1".

⚠ **CAUTION**
THE VALUES OF THE PARAMETERS ENTERED OUTSIDE THE RANGE ARE AUTOMATICALLY RESET WITHIN THE RANGE AND THEN DISPLAYED.

Example:

If parameter $HI-E$ is set with a value of 40.0 this will be automatically set to the maximum value which is 20.00.
The same applies to negative values.

PARAMETER CONFIGURATION EXAMPLE

You want to set the instrument to display a 0 ÷ 10 V voltage input with an activated filter:

Access the menu by pressing DOWN + MENU / OK for 3 seconds until the $I.n.P.t$ menu appears;
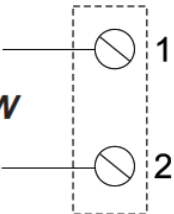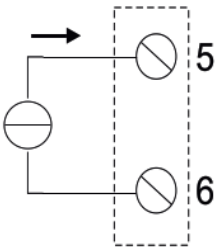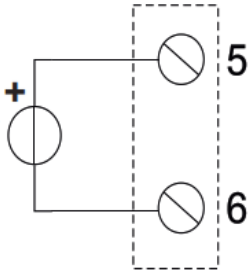
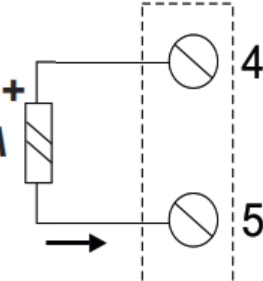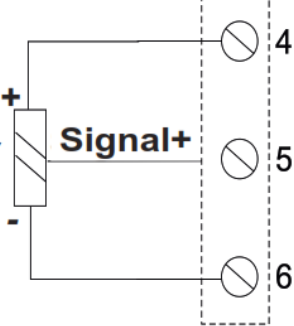Press the OK/MENU button and access the $I.n.P.t$ sub-menu and set:

$t.Y.P.E.=0.$ $L.0.-.E=00.00$ $HI.-.E-=10.00$

$S.C.A.L$

Press the OK/MENU button and access the $S.C.A.L$ sub-menu and set:

$L.0.-.E=0.$ $HI.-.d=1000.$ $dP.-.d=2$ $FI.L.t.=1$
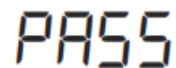
ELECTRICAL CONNECTIONS

POWER SUPPLY	CURRENT INPUT	VOLTAGE INPUT
10÷40Vdc 10÷28Vac 1W — terminals 1, 2	0÷20mA — terminals 5, 6. With an external power supply from the sensor	-10÷10V — terminals 5, 6. With an external power supply from the sensor
	0÷20mA — terminals 4, 5. With the power supply supplied by the instrument	0÷10V Signal+ — terminals 4, 5, 6. With the power supply supplied by the instrument

ERROR TYPE

∩∩∩∩	A) The value to be displayed is 3% higher than the **HI - d** parameter set. B) The value to be displayed is higher than **9999**
UUUU	A) The value to be displayed is 3% higher than the **LO- d** parameter set. B) The value to be displayed is higher than **- 1999**
∩∩∩∩ UUUU	Quick transition from **∩∩∩∩** to **UUUU** : overcurrent protection activated (input > 25mA).

## MENU PARAMETER

PARAMETER	FUNCTION	C.O.n.F	Default value
PASS	Password enabling for menu access	By setting a value other than 5477, the password will be requested to access the menu (always 5477)	5477: Password disabled.

PARAMETER	FUNCTION	I.n.P.t	Default value
tYPE	Input type	1= Current 0= Voltage	1
LO-E	Electrical Scale Start	Start of scale in volts (voltage input) or in mA (current input). It also defines the value of the input quantity associated with the the minimum value is shown on the display (LO-d). Minimum settable value 0 (current input), -10.00 (voltage input), maximum value 20.00 (current input), 10.00 (voltage input).	4.00 (mA)
HI - E	Electrical full scale	Full scale in volts (voltage input) or in mA (current input). It also defines the value of the input quantity associated with the maximum value shown on the display (HI-d). Minimum settable value 0 (current input), -10.00 (voltage input), maximum value 20.00 (current input), 10.00 (voltage input).	20.00 (mA)
PARAMETER	FUNCTION	S.C.A.L.	Default value
HI - d	Display full scale	Integer values between a minimum of -1999 and a maximum of 9999	1000
LO-d	Start of the display scale	Integer values between a minimum of -1999 and a maximum of 9999	0
dP-d	Position of decimal point	0= No decimal point 1= Decimal point on the 1 st digit 000.0 2= Decimal point on the 2 nd digit 00.00 etc.	No decimal point
FILt	Filter level	0= No filter 1….5 = Filter activated with level 1 … 5	0
PARAMETER	FUNCTION	S.Y.S.	Default value
dFLt	Default settings	1 = Overwrites the set parameters with the default values and exits the menu	0
COnt	Contrast	0…3= Adjusts the display contrast.	1
PARAMETER	FUNCTION	E.H.I .t	Default value
	Menu exit	By confirming with OK \ MENU, all the set parameters are saved on the flash memory. The module can be used immediately with the new settings without the need for a reboot.	

CONTACT INFORMATION

Technical support	**supporto@seneca.it**	Product information

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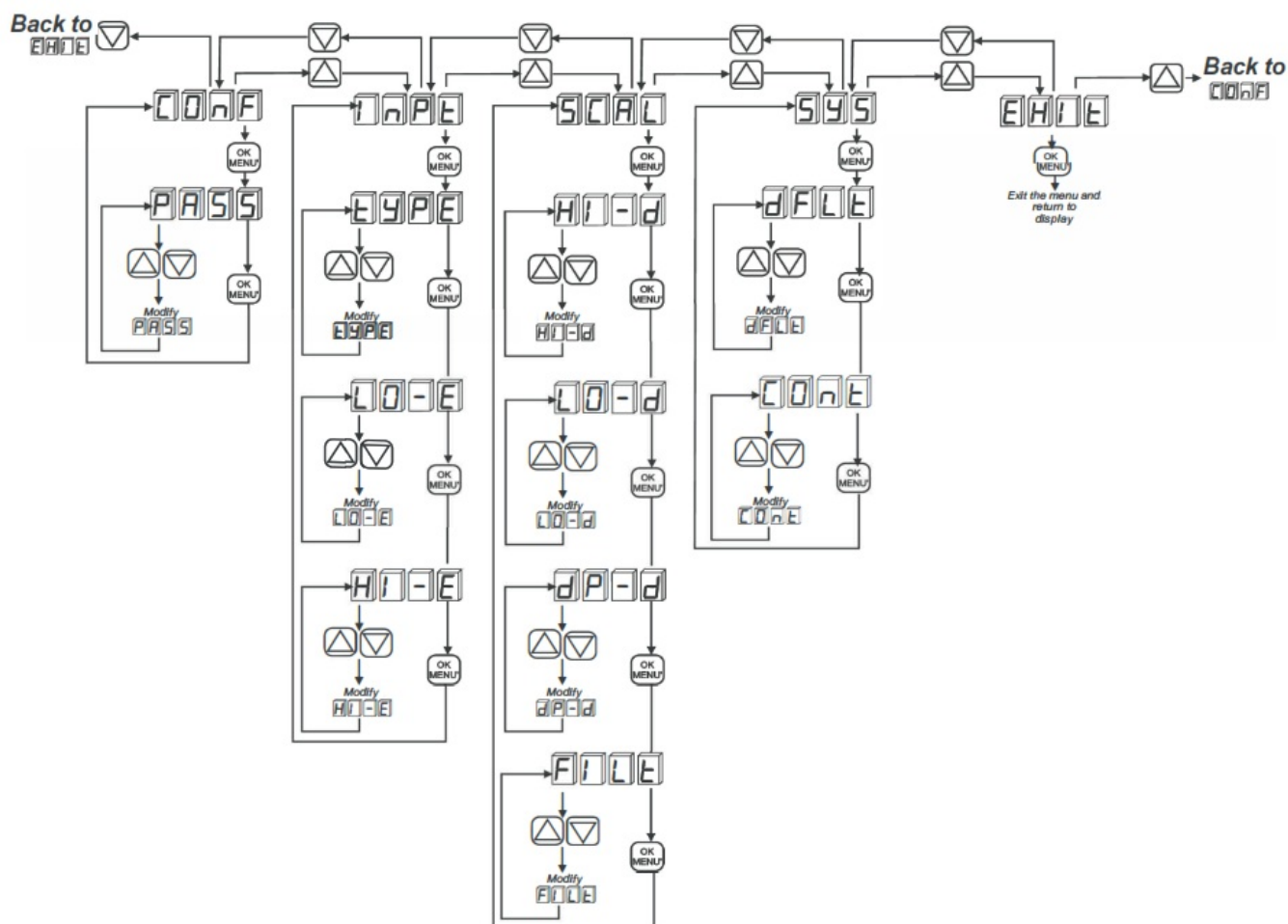
ACCESS TO THE PROGRAMMING MENU

▽ + OK MENU Press the two buttons simultaneously for a few seconds

DOCUMENTATION
www.seneca.it/products/s311ak-4-l

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For manuals in other languages and the configuration software,
visit www.seneca.it/products/s311ak-4-l

Documents / Resources

SENECA S311AK Analogue Panel Indicator with 4-Digit Display [pdf] Installation Guide
S311AK Analogue Panel Indicator with 4-Digit Display, S311AK, Analogue Panel Indicator with
4-Digit Display, Analogue Panel Indicator, Panel Indicator, Indicator

Manuals+,