SENECA

S Series

E

S315

4-digit display, loop-powered, digital panel indicator

Installation manual

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CERTIFICATE N. 9115.SENE - REGISTRATION NUMBER IT-827
azienda con sistema di gestione per la qualità certificato
ISO 9001:2008

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General description

S315 is a measuring instrument with analog current loop input.
The displaying, scaling and programming parameters can be set by Menu.
The measurement is checked, scaled and displayed on the 4-digit display.
S315 provides excellent resolution, high accuracy and temperature stability.
The instrument is compact size..

General characteristics

HW	✓ Power supply from measure loop. ✓ Current Input 4-20mA. ✓ Loop voltage drop Max.: 7.5 V. ✓ ADC 16bit. ✓ Measure loop powered (30V Max) ✓ Easy navigation on the programming menu using the three buttons on the front panel. ✓ Protection index IP65 (with the provided seal).
SW	✓ Input parameters and display configuration can be set using the menu. ✓ Password protected programming menu.

Specifications

POWER SUPPLY	
	From loop
Voltage drop	Max 7.5 V
ERRORS REFERRED TO THE MAXIMUM MEASUREMENT RANGE FOR INPUT VOLTAGES AND CURRENTS	
.Risolution	16 bit, 40000 dots max
Accuracy	0,05%
Thermal coefficient	0,005% /°K

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Linearity error	0.05%
Electromagnetics interferance	<1%
ENVIRONMENTAL CONDITION:	
Operating temperature	-20..+65°C
Storage temperature	-30..+85° C
Humidity	30..90% non-condensing
Altitude	Up to 2000 m above the sea level
CONNECTION	
Terminal block	2-way removable screw terminals, 5.08 mm pitch
CASING	
Size (L xW x H)	96 x 48 x 40 mm
Weight	200 g
Protection index	IP 65
Case material	Plastic
NORMS / STANDARDS	
Standards CE	EN61000-6-4 Electromagnetic emission, industrial environment EN61000-6-2 Electromagnetic immunity, industrial environment EN61010-1 Safety.

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Parameter menu			
Parameter	Function	CONF.	Default value
PASS	Enabling of menu access password	If a value other than 5477 is set, the password (also 5477) will be required to access the menu	5477: Password disabled.
Parameter	Function	SCAL.	Default value
LO-d	Display start scale	Integer values between -1999 minimun and =9999 maximum.	0
HI-d	Display full scale	Integer values between -1999 minimun and =9999 maximum.	1000
dP-d	Decimal point position	0 = no decimal point 1 = one decimal point 000.0 2 = two decimal points 00.00	No decimal point
FILt	Filter level	0 = No filter 1....5 = Active	0
OFFS	Offset	Adds an offset Integer values between -1999 minimun and =9999 maximum.	0
Parameter	Function	SYS.	Default value
dFLt	Default settings	1 = Ovenwrite the set parameter with default value and exit from menu.	0
Parameter	Function	EXIT.	Default value
	Exit from menu	By confirming with **OK\MENU,** all the set parameters will be saved on a flash memory. The module is ready for use with the new setting without the need for restart.	

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Types of error

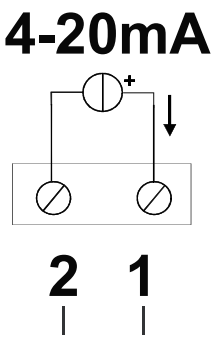
Display appearance	Error Description and possible causes
nnnn	A) The value to be shown is 3% greater than the set HI-d value. B) The value to be shown is greater than 9999
UUUU	A) The value to be shown is 3% lower than the set LO-d value. B) The value to be shown is lower than -1999

Installation instructions

The module is designed to be installed in the electrical switchboard. In order to ensure optimum performance and the longest working life, the module(s) must be supplied with adequate ventilation. Do not install the module above heat sources.

Electrical connections

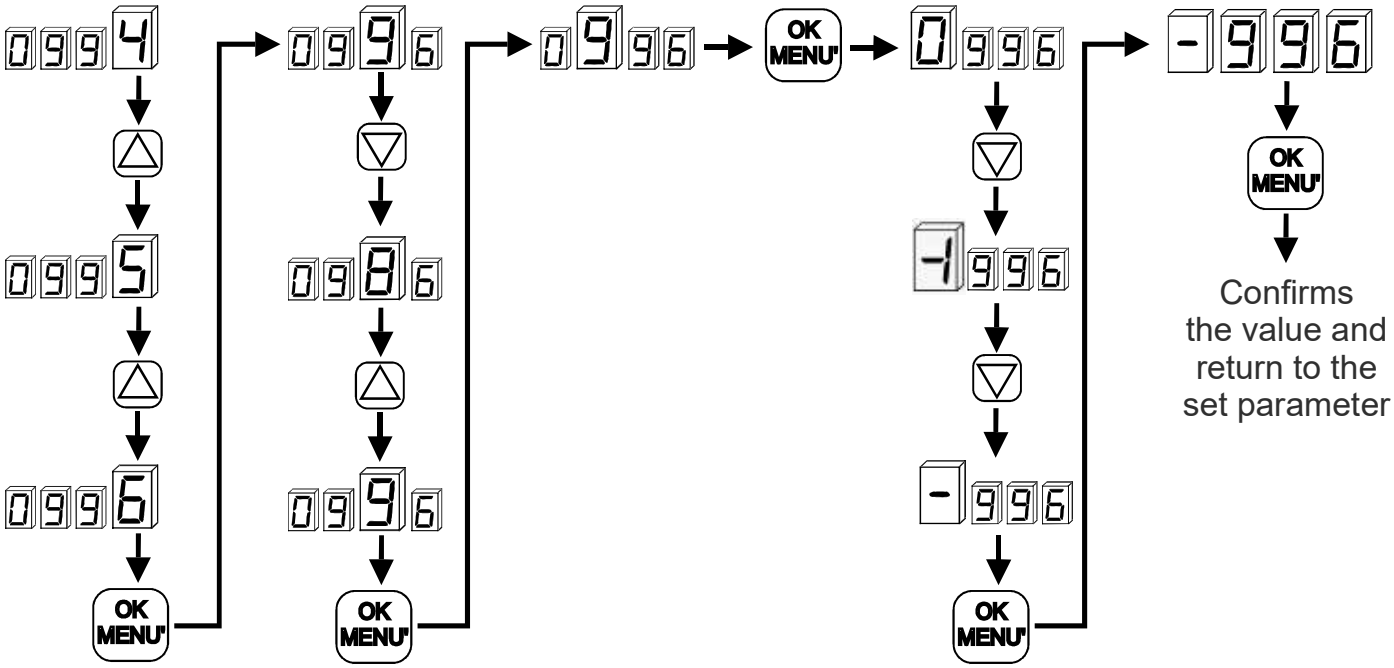
CURRENT SUPPLY AND MEASURE



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Modification of menu parameters

The modification is done digit by digit. The digit to modify flashes: the figure below shows the digit being modified larger than the others.
The diagram shows an example with 4 digits.



Increases the value by one unit.

Decrease the value by one unit.

OK MENU' Confirms the value and moves to the next.
At the last digit: press once to confirm the value and press again to return to the parameter just set.

Value setting notes

Negative values: in the last field it is also possible to enter a "-" sin or a value of "-1"

NOTES:
ANY VALUES ENTERED OUTSIDE THE RANGE ARE AUTOMATICALLY BROUGHT BACK WITHIN THE RANGE AND THEN DISPLAYED.

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Example configuration parameters

To set S315 so that it shows the value **11 .11** with 4mA input and the value **99.99** with 20mA, with active filter.

• Access the menu by pressing **DOWN + MENU' /OK** for 3 seconds, until menu CONF. appears (If is necessary after entering the password). Press **DOWN** to display the next submenu.

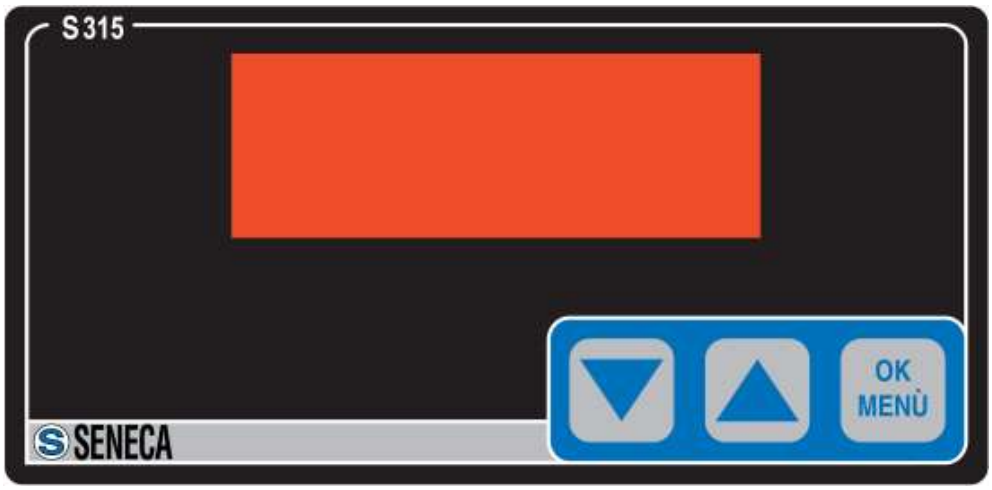
• Access the SCAL. menu and set:

LO-dE 1111, HL -dE 9999, dP-dE 2,
FIL tE 1

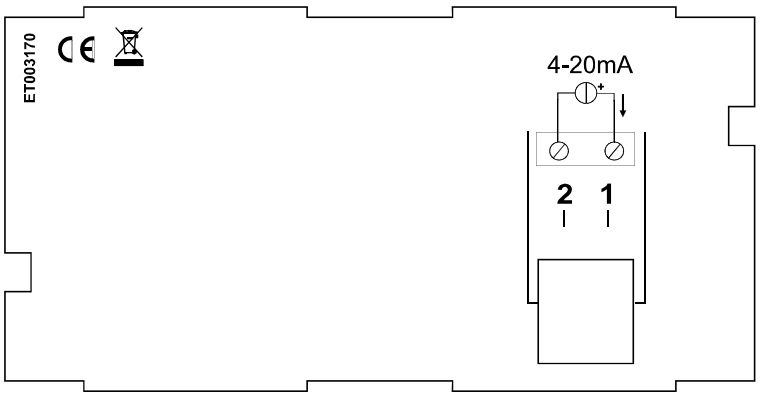
For a complete map of the programming menu see page 9.

Position buttons and terminals

FRONTAL BUTTONS

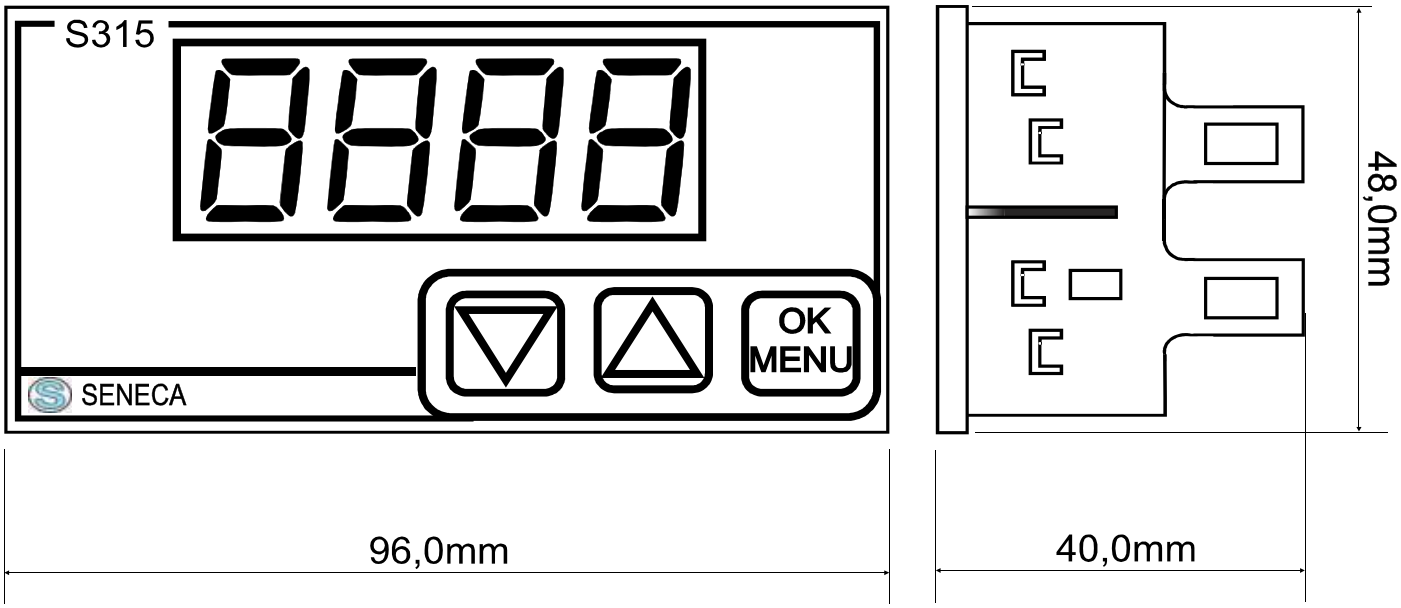


REAR: REMOVABLE SCREW TERMINALS



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Size and dimension



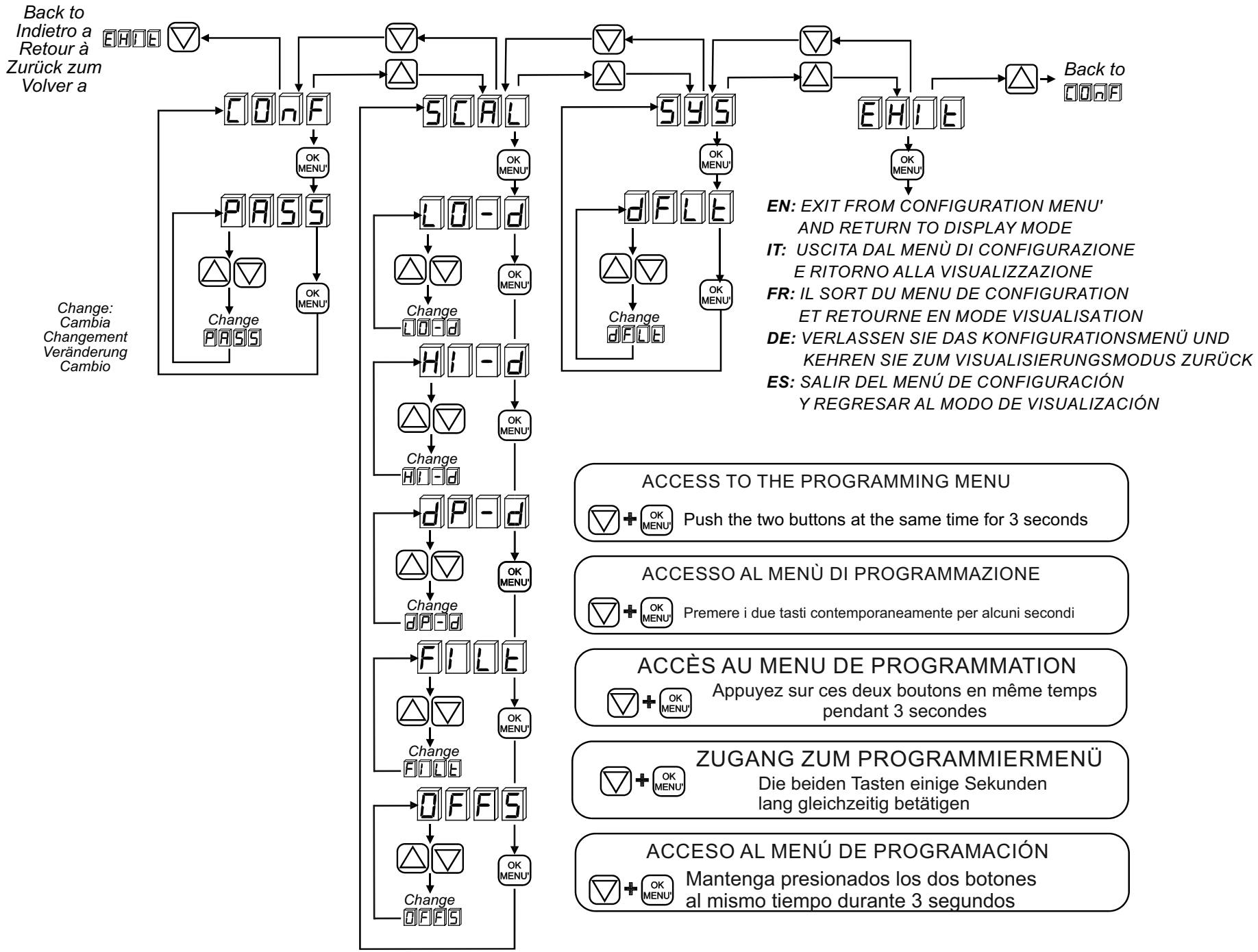
Disposal of Electrical & Electronic Equipment (Applicable within the European Union and other countries with separate waste collection procedure).
This symbol, found on your product or on its packaging, indicates that this product should not be disposed of as household waste. Instead, it should be handed over to an authorised collection point for the recycling of electrical and electronic equipment. By ensuring that this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, m 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 of this product, please contact your local city office, waste disposal service or the retail store where you purchased this product.

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