

# HIGH BRIGHTNESS AND ACCURACY DIGITAL LED INDICATORS

## MODULAR INDICATORS / TOTALIZERS WITH UNIVERSAL ANALOG INPUT

### S311A-4



#### 4-digit display indicator - totalizer with universal analog input

S311A is a high performance compact/modular indicator/totalizers. This series offers display choice with 4, 6, 8, 4 + 7 digits in multiple visualization mode (real-time, integrated, totalized measured values).

S-Line indicators support universal input (analog, digital, by sensor) and re-transmitted output mA, V standard.

Concerning power supply they ensure an extended range of options: 80-265 Vac; 10-40 Vdc / 19-28 Vac loop powered.

Accuracy class reach 0,1% with 14-16 bit A/D conversion. Optionally S-Line indicators can provide ModBUS interface alarm relay (hysteresis and threshold control) and IP66 case. Besides front key buttons, settings are made by PC software EASY SETUP.

#### GENERAL DATA

Power Supply	80-265 Vac (H version) 10-40 Vdc / 19-28 Vac (L version)
Power transducers (active input)	Max 18 V, 25 mA
Power consumption (max)	3 W
Isolation	1.500 Vac
Communication interface	ModBUS RTU slave (optional board)
Operating temperature	-10..+60 °C
Front protection degree	IP65
Terminals	Removable, pitch 3,5 – 5,08 mm
Dimension	96x48x98 mm
Weight	200 g
Display	4 digit LED
LED status indicators	2 alarm LEDs (threshold enabling)
Front keys	3 front panel key navigation button
Accuracy	0,1%
Settings	EASY SETUP software, front key buttons
Special functions	Integrator
Approvals	CE

#### INPUT DATA

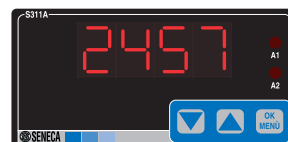
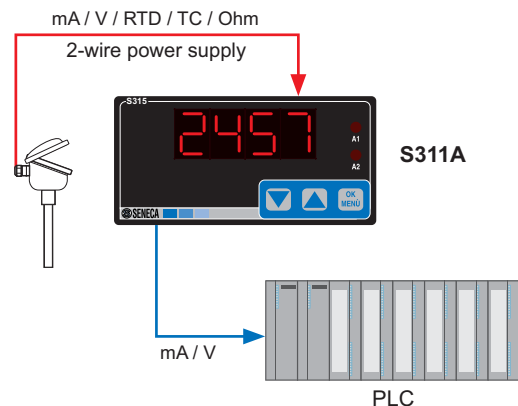
Channels	1
Type and range	Voltage: 0-10 V Active / Passive Current: 0-20 mA Potentiometer: 1..100 kΩ Pt100 2,3,4 fili (IEC 751 / EN 60751 – ITS90) Thermocouple J,K,R,S,T,B,E,N
Frequency	-
Reset	Yes: by digital input and front key buttons

#### OUTPUT DATA

Channels	1
Type and range	0-10 V (min 1KΩ) 0-20 / 4-20 mA (max 500 ohm)
Relay output	Nr 2 SPDT 220 Vac 5A (resistive), 2A (inductive) - optional board

#### APPLICATION EXAMPLE

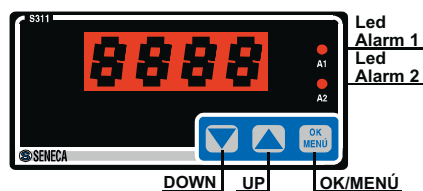
##### ANALOG SIGNAL VISUALIZATION AND PLC RE-TRANSMISSION



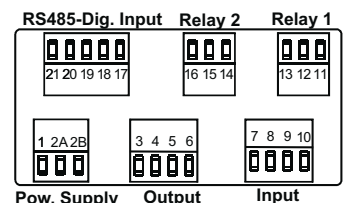
- Power transducers
- Input: mA, V, Ohm, Pt100, TC
- Values totalization

#### BUTTONS AND TERMINALS POSITION

##### FRONTAL PANEL: BUTTONS AND LEDS



##### REAR SIDE: TERMINALS



The terminals from 11 to 21 are present only in case of optional card use.

#### SUMMARY OF BUTTONS ACTIONS (in view mode)

+  Access to programming Menu	Access to Quick Alarms Menu
If $FUN=0$ has been set, the indicator switches to the instantaneous view (except 11 digits model).	If $FUN=0$ has been set, the indicator switches to the integrator view (except 11 digits model).
+  Retained Alarms reset.	+  +  Integrator Reset (if this functionality it has been enabled by setting $RES=0$ ).