



	S311A-4	S311A-6	S311A-8	S311A-11
	4 digit universal analog input indicator - totalizer and analog output	6 digit universal analog input indicator - totalizer and analog output	8 digit universal analog input indicator - totalizer and analog output	11 digit universal analog input indicator - totalizer and analog output



TECHNICAL SPECIFICATIONS

General Data				
Power supply	80-265 Vac (H version) 10-40 Vdc / 19-28 Vac (L version)	80-265 Vac (H version) 10-40 Vdc / 19-28 Vac (L version)	80-265 Vac (H version) 10-40 Vdc / 19-28 Vac (L version)	80-265 Vac (H version) 10-40 Vdc / 19-28 Vac (L version)
Power transducers	Max 18 V, 25 mA			
Power consumption	3 W	3 W	3 W	3 W
Isolation	1.500 Vac	1.500 Vac	1.500 Vac	1.500 Vac
Communication interface	ModBUS RTU slave (optional board)			
Memory	EEPROM 10 years, storage memory	EEPROM 10 years, storage memory	EEPROM 10 years, storage memory	EEPROM 10 years, storage memory
Visualization And Measure				
Display	LED, 4 digit	LED, 6 digit	LED, 8 digit	LED, 11 (4+7) digit
Status indicators	2 alarm leds (enabled threshold trips)			
Front Buttons	3 navigation keys	3 navigation keys	3 navigation keys	3 navigation keys
Display errors	Over range, fault sensor			
Accuracy	0,1%	0,1%	0,1%	0,1%
Stability	0,01%/K 0,2°C (Pt100)	0,01%/K 0,2°C (Pt100)	0,01%/K 0,2°C (Pt100)	0,01%/K 0,2°C (Pt100)
Linearity error	0,5° (TC J,K,E,N,T) 1°C (TC R,S) 2°C (TC B)			
Cold joint	0,05% (0-10 V, 0-20 mA) ±1,5°C			
Input Data				
Nr	1	1	1	1
Type	Voltage: 0-10 V Active / passive current: 0-20 / 4..20 mA Potentiometer: 1..100 kΩ Pt100 2,3,4 wire (IEC 751 / EN 60751 – ITS90) Thermocouple J,K,R,S,T,B,E,N	Voltage: 0-10 V Active / passive current: 0-20 / 4..20 mA Potentiometer: 1..100 kΩ Pt100 2,3,4 wire (IEC 751 / EN 60751 – ITS90) Thermocouple J,K,R,S,T,B,E,N	Voltage: 0-10 V Active / passive current: 0-20 / 4..20 mA Potentiometer: 1..100 kΩ Pt100 2,3,4 wire (IEC 751 / EN 60751 – ITS90) Thermocouple J,K,R,S,T,B,E,N	Voltage: 0-10 V Active / passive current: 0-20 / 4..20 mA Potentiometer: 1..100 kΩ Pt100 2,3,4 wire (IEC 751 / EN 60751 – ITS90) Thermocouple J,K,R,S,T,B,E,N
Resolution	14 bit	14 bit	14 bit	14 bit
Sampling time	20 ms	20 ms	20 ms	20 ms
Reset (totalizer)	Yes: by digital input and front keys			
Output Data				
Nr	1	1	1	1
Type	0-10 V (min 1K) 0-20 / 4-20 mA (max 500 ohm)	0-10 V (min 1K) 0-20 / 4-20 mA (max 500 ohm)	0-10 V (min 1K) 0-20 / 4-20 mA (max 500 ohm)	0-10 V (min 1K) 0-20 / 4-20 mA (max 500 ohm)
A/D Resolution	10.000 points	10.000 points	10.000 points	10.000 points
Optional board	Nr 2 SPDT 220 Vac (5A resistive, 2 A inductive) relay alarms + Nr 1 RS485ModBUS RTU slave port + nr 1 reset digital input	Nr 2 SPDT 220 Vac (5A resistive, 2 A inductive) relay alarms + Nr 1 RS485ModBUS RTU slave port + nr 1 reset digital input	Nr 2 SPDT 220 Vac (5A resistive, 2 A inductive) relay alarms + Nr 1 RS485ModBUS RTU slave port + nr 1 reset digital input	Nr 2 SPDT 220 Vac (5A resistive, 2 A inductive) relay alarms + Nr 1 RS485ModBUS RTU slave port + nr 1 reset digital input
Themomechanics Data				
Operating temperature	-10..+60 °C	-10..+60 °C	-10..+60 °C	-10..+60 °C
Enclosure	PPO self-extinguish DIN 43700			
Protection degree	IP65 (frontal)	IP65 (frontal)	IP65 (frontal)	IP65 (frontal)
Terminal blocks	Removable, step 3,5 – 5,08 mm			
Dimension (w x h x d)	96x48x98 mm	96x48x98 mm	96x48x98 mm	96x48x98 mm
Panel cut -out	91x45 mm	91x45 mm	91x45 mm	91x45 mm
Weight	200 g	200 g	200 g	200 g
Settings, Norms				
Software / settings	Display parameters, alarms, signals, timeout, reset, trips			
Calibration	Yes, factory-made	Yes, factory-made	Yes, factory-made	Yes, factory-made
Norms	EN 61000-6-4/2002, EN 61000-6-2/2005, EN 61010-1/2001			

S311A is an universal display with analog input (mA, V, PT100, TCs, Ohm) that allows to view the instantaneous value (engineering units), retransmit it through an isolated analog output and, by the optional board, have N.2 relay alarms and Modbus interface. Furthermore the unit allows to integrate the input and totalize it into the internal memory. It is available with 4,6 or 8 digits and an 7+4 digits (double line).

ORDER CODES

Code	Description
Model	S331A Universal analog input indicator - totalizer and analog output
Display	-4 / -6 / -8 / -11 4 / 6 / 8 / 4+7 digit
Power Supply	-H / -L 80-265 Vac / 10-40 Vdc; 19-28 Vac
Options	-O Optional board: nr 2 SPDT relay alarms, ModBUS RTU interface, reset input
	/T Calibration service
Software	EASYS311A Plug&play software configurator via serial converter to RS485 (i.e. S107USB)