

INDICATORS

S310 / S310A / S310AA / S320A - 3½ DIGIT DIGITAL INDICATORS

3½ digit indicators with ultrabright red LED display. They display the signals provided by the process transducers directly in engineering units. Two trimmers permit easy zero and range adjustment.

Available in 4 versions:

S310	Without alarm	Case 96 x 48 mm
S310A	1 relay alarm	Case 96 x 48 mm
S310AA	2 relay alarms	Case 96 x 48 mm
S320A	2 relay alarms	Case 96 x 96 mm

MAIN FEATURES

- Ultrabright red LED 3½ digit display, height 14 mm
 - Display zero and span adjustable via multi-turn trimmers behind front panel. Display range from -999 to 1999
 - Decimal point can be entered via jumpers located behind front panel
 - Precision and stability greater than 0.3%
 - Power supply variation stability: 0.01%/20%
 - Current input 0-20mA and 4-20mA selectable via jumpers. Input impedance for current measurements: 100 ohm
 - Voltage input 0-2Vdc, 0.4-2Vdc, 0-5Vdc and 1-5Vdc selectable via jumpers
 - Input for heating element (PT100) and for thermocouples (type K and T) with optional boards
 - Output for transducer power supply 20Vdc 20mA.
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- In the versions with relay alarm output (all with SPDT contact with capacity 5A 250Vac - resistive load), the cut-in value is easily adjusted by means of a multi-turn trimmer on the front panel. A front button permits display of the threshold value during adjustment. The alarms can be configured as minimum or maximum alarm via internal jumpers.
 - Retransmitted output configurable 0-20mA or 4-20mA active or passive, optoisolated, with optional board
 - Self-extinguishing Noryl cases
 - Pull-out terminal blocks

APPLICATION EXAMPLES

Indicator of any process variable (e.g. Ph, conductivity, redox, oxygen etc.) with alarms if necessary.

Tank level indicator, temperature or pressure indicator with alarms if necessary.

TECHNICAL DATA



S310



S310A/S310AA



S320A

- Power supply :
S310/S310A/S310AA/S320A-1-xx 115 - 230 Vac +/- 10% 50 - 60 Hz
S310/S310A/S310AA/S320A-23-xx 24 Vdc-ac +/- 10%
- Power consumption : 3,5 VA
- Current input : selectable via DIP-switches between 0-20 and 4-20 mA (with both active and passive connection)
- Voltage input : selectable via DIP-switches between 0-2, 0,4-2, 0-5 and 1-5 Vdc
- Input impedance :
- 100 ohm for current input
- 5 kohm for voltage input
- Precision and stability greater than 0,3%
- Relay alarms : SPDT changeover 5 A 250 Vac (resistive load)
- Transducer power supply : 20 Vdc 20 mA
- Operating temp. : 0 / + 50 °C
- Storage temp. : -25 / + 60 °C
- Humidity : 90% a 40 °C (non-condensing)
- Dimensions (b x h x d) :
S310/S310A/S310AA 96 x 48 x 149 mm
S320A 96 x 96 x 149 mm

ORDERING CODES

Code	Power supply	Input	Relay alarms	Retransmitted output
S310-1-ST	115 - 230 Vac	V - mA	-	-
S310-1-ST-R	115 - 230 Vac	V - mA	-	X
S310-1-PT	115 - 230 Vac	Pt100	-	-
S310-1-PT-R	115 - 230 Vac	Pt100	-	X
S310-1-TC	115 - 230 Vac	TC J o K (1)	-	-
S310-1-TC-R	115 - 230 Vac	TC J o K (1)	-	X
S310-23-ST	24 Vdc-ac	V - mA	-	-
S310-23-ST-R	24 Vdc-ac	V - mA	-	X
S310-23-PT	24 Vdc-ac	Pt100	-	-
S310-23-PT-R	24 Vdc-ac	Pt100	-	X
S310-23-T	24 Vdc-ac	TC J o K (1)	-	-
S310-23-TC-R	24 Vdc-ac	TC J o K (1)	-	X
S310A-1-ST	115 - 230 Vac	V - mA	1	-
S310A-1-ST-R	115 - 230 Vac	V - mA	1	X
S310A-1-PT	115 - 230 Vac	Pt100	1	-
S310A-1-PT-R	115 - 230 Vac	Pt100	1	X
S310A-1-TC	115 - 230 Vac	TC J o K (1)	1	-
S310A-1-TC-R	115 - 230 Vac	TC J o K (1)	1	X
S310A-23-ST	24 Vdc-ac	V - mA	1	-
S310A-23-ST-R	24 Vdc-ac	V - mA	1	X
S310A-23-PT	24 Vdc-ac	Pt100	1	-
S310A-23-PT-R	24 Vdc-ac	Pt100	1	X
S310A-23-TC	24 Vdc-ac	TC J o K (1)	1	-
S310A-23-TC-R	24 Vdc-ac	TC J o K (1)	1	X
S310AA-1-ST	115 - 230 Vac	V - mA	2	-
S310AA-1-ST-R	115 - 230 Vac	V - mA	2	X

S310AA-1-PT	115 - 230 Vac	Pt100	2	-
S310AA-1-PT-R	115 - 230 Vac	Pt100	2	X
S310AA-1-TC	115 - 230 Vac	TC J o K (1)	2	-
S310AA-1-TC-R	115 - 230 Vac	TC J o K (1)	2	X
S310AA-23-ST	24 Vdc-ac	V - mA	2	-
S310AA-23-ST-R	24 Vdc-ac	V - mA	2	X
S310AA-23-PT	24 Vdc-ac	Pt100	2	-
S310AA-23-PT-R	24 Vdc-ac	Pt100	2	X
S310AA-23-TC	24 Vdc-ac	TC J o K (1)	2	-
S310AA-23-TC-R	24 Vdc-ac	TC J o K (1)	2	X
S320A-1-ST	115 - 230 Vac	V - mA	2	-
S320A-1-ST-R	115 - 230 Vac	V - mA	2	X
S320A-1-PT	115 - 230 Vac	Pt100	2	-
S320A-1-PT-R	115 - 230 Vac	Pt100	2	X
S320A-1-TC	115 - 230 Vac	TC J o K (1)	2	-
S320A-1-TC-R	115 - 230 Vac	TC J o K (1)	2	X
S320A-23-ST	24 Vdc-ac	V - mA	2	-
S320A-23-ST-R	24 Vdc-ac	V - mA	2	X
S320A-23-PT	24 Vdc-ac	Pt100	2	-
S320A-23-PT-R	24 Vdc-ac	Pt100	2	X
S320A-23-TC	24 Vdc-ac	TC J o K (1)	2	-
S320A-23-TC-R	24 Vdc-ac	TC J o K (1)	2	X

(1) to specify in order

For more info please refer to the operating manual

Characteristics can be subject to change without notice