



AX320 / AX322

Process indicators for normed analog signals - with 2 presets / relays and 2 control inputs

Product Features:

- Two identical models, but with different power supply ranges
- Analog input 0 to +/-10 V (or 2 to 10 V) and 0 to 20 mA resp. 4 to 20 mA
- Two relay outputs for limit monitoring (potential-free changeover contacts)
- Two digital multi-function inputs with programmable control function
- Useful supplementary functions like digital filter, linearization, totalizer etc.
- 6 digit LED display (14 mm / 0.55" size) for readout and menu dialogues

Available Devices:

- **AX320:** power supply 10 to 30 VDC
- **AX322:** power supply 90 to 240 VAC and additional 24 VDC sensor supply output

Technical Specifications:	
Power supply AX320:	Input voltage: 10 ... 30 VDC Protection circuit: reverse polarity protection Consumption: max. 3.5 W Connections: screw terminals, 2.5 mm ² / AWG 14
Power supply AX322:	Input voltage: 90 ... 260 VAC - 50 / 60 Hz Power consumption: max. 9 VA Connections: screw terminals, 2.5 mm ² / AWG 14
Sensor supply:	Output voltages: AX320: 15 VDC AX322: 15 VDC and 24 VDC Output currents: AX320: max. 25 mA AX322: max. 30 mA Connections: screw terminals, 1.5 mm ² / AWG 16
Measurement signal inputs:	Sampling rate: 10 measurements / s Measurement accuracy: typ. 0.02 % v. Mb at 23°C: max. ≤ 0.05 % v. Mb Temperature droop: < 100 ppm/K
Analog input (voltage):	Input voltages: - 10 V ... +10 V / 0 ... +10 V, +2 V... +10 V (programmable) Measuring range: -10.5 ... +10.5 V Resolution: 0.4 mV (+/- 15bit) Internal resistance: 1 MOhm Maximum voltage: 30 V Connections: screw terminals, 1.5 mm ² / AWG 16

Technical Specifications:		
Analog input (current):	Input currents: Measuring range: Resolution: Internal resistance: Maximum current: Connections:	0 ... 20 mA resp. 4 ... 20 mA (programmable) -0.5 ... +21 mA 1 μ A (> 14 bit) 22 Ohm + PTC 25 Ohm 60 mA screw terminals, 1.5 mm ² / AWG 16
Control inputs:	Number of inputs: Functions: Characteristic: Signal levels: Connections:	2 optocoupler inputs (MP 1 / MP 2) programmable PNP, active high LOW = 0 ... 2 V, HIGH = 4 ... (max.) 30 V screw terminals, 1.5 mm ² / AWG 16
Relay outputs:	Number of outputs: Switching voltage: Switching current: Switching power: mech. life time (cycles): Number of cycles at 5 A / 250 VAC: Number of cycles at 5 A / 30 VDC: Connections:	2 potential free changeovers max. 250 VAC / 125 VDC, min. 5 VAC / VDC max. 5 AAC / ADC, min. 10 mA max. 1250 VA / 150 W 1 x 10 ⁷ 5 x 10 ⁴ 5 x 10 ⁴ screw terminals, 2.5 mm ² / AWG 14
Display elements:	Display: Digit height: range: LEDs: Functions:	6 digit LED, red 14 mm / 0.551 inch -199 999 ... +999 999 2 red status LEDs switching states of alarm 1 / 2 and signalization of the function-group or function
Operating elements:	Front key panel:	5 buttons for operation or setup
Data memory:	Storage medium: Data retention:	EEPROM > 10 years
Housing:	Material: Mounting: Dimensions (w x h x d) : Cut out (w x h): Installation depth: Protection class: Weight: Vibration resistance - EN60068-2-6: Shock resistance: - EN60068-2-27: - EN60068-2-29:	polycarbonate UL94 V-2 panel housing according to DIN 43 700, RAL 7021 96 x 48 x 102 mm / 3.779 x 1.889 x 4.016 inch 92 x 45 mm / 3.622 x 1.777 inch approx. 92 mm / 3.622 inch (incl. plug-terminals) front: IP 65 / rear: IP20 approx. 180 g 10 ... 55 Hz / 1 mm / XYZ, 30 min to each direction 100G / XYZ, 3 times to each direction 10G / 6 ms / XYZ, 2000 times to each direction
Climatically conditions:	Operating temperature: Storage temperature: Humidity: Operation height:	-20 °C ... +65 °C / -4 °F ... 149 °F -25 °C ... +75 °C / -13 °F ... 167 °F r. F. 93 % at +40° C / 104 °F (not condensing) up to 2000 m
Device safety:	Based on: Protection class: Application area:	EN61010 part 1 (according to LV 2006/95/EC) Protection class 2 Pollution level 2
Conformity & standards:	EMC 2004/108/EC: Emitted interference: Guideline 2011/65/EU:	EN 61000-6-2 EN 55011 class B RoHS-conform