



AX345-348

Universal process indicators with two independent configurable analog inputs

Product Features:

- Clear LED display (15 mm / 0.59" size) with adjustable brightness
- Two independent scalable analog inputs, each configurable for voltage or current operation
- Supplementary functions like tare function, programmable averaging, programmable linearization etc.
- Operating modes for display of input A or input B or the combinations A + B, A - B, A x B and A : B
- Power supply 115/230 VAC and 17 to 30 VDC in the same unit
- Aux. output 24 VDC / 100 mA for sensor supply

Available Devices:

- **AX345:** Dual Process Indicator only
- **AX346:** Dual Process Indicator with analog output (configurable for voltage or current operation)
- **AX347:** Dual Process Indicator with 2 presets and optocoupler-transistor outputs
- **AX348:** Dual Process Indicator with serial interface (RS232 / RS485)

Technical Specifications:		
Power supply:	Input voltage(AC): Power consumption (AC): Input voltage (DC): Ripple (DC): Protection circuit (DC): Consumption (DC): Connections:	115 / 230 VAC (+/- 12.5 %) min. 7.5 VA 24 VDC (17 ... 30 VDC) ≤ 10 % at 24 VDC reverse polarity protection approx. 100 mA (unloaded) AC: screw terminal, 2.5 mm ² / AWG 14 DC: screw terminal, 1.5 mm ² / AWG 16
Sensor supply:	Output voltage: Output current:	24 VDC +/- 15 % (with AC supply) max. 150 mA (with AC and DC supply)
Analog inputs:	Number of inputs: Voltage inputs Current inputs: Connections:	2 -10 ... +10 V / 0 ... 10 V (R _i ≈ 30 kOhm) 0 ... 20 mA / 4 ... 20 mA (R _i ≈ 100 Ohm) screw terminal, 1.5 mm ² / AWG 16
Analog accuracy:	Measurement: Resolution	+/- 0,1 %, +/- 1 Digit 14 Bit (±13 Bit)
Analog output (AX346):	Volt output: mA output: Resolution: Accuracy: Reaction time:	-10 ... +10 V / 0 ... 10 V (max. 2 mA) 0 ... 20 mA / 4 ... 20 mA (burden: max. 270 Ohm) 14 Bit (±13 Bit) 0.1 % min. 58 ms
Transistor outputs (AX347):	Number of outputs: Output logic: Signal level: Output current: Reaction time: Connections:	2 PNP 5 ... max. 35 V (depends on voltage at COM+) max. 150 mA min. 53 ms screw terminal, 1.5 mm ² / AWG 16
Serial interface (AX348):	Format: Baud rates (selectable): Operation modes: Connections:	RS232, switchable to RS485 (2-conductors) 600, 1200, 2400, 4800, 9600, 19200, 38400 Baud PC or printer mode screw terminal, 1.5 mm ² / AWG 16
Display:	Type: Characteristic:	6 Digit LED display high-efficiency orange, 15 mm / 0.59"
Housing:	Type: Material: Mounting: Dimensions (w x h x d): Protection class: Weight:	Norly UL94 – V-0 plastic panel cut out: 91 x 44 mm / 3.583 x 1.7323 inch (w x h) outer dimensions: 110 x 48 x 140 mm / 4.331 x 1.889 x 5.511 inch front: IP 65 / rear: IP20 approx. 450 g
Ambient temperature:	Operation: Storage:	0 °C ... +45 °C / +32 ... +113 °F (not condensing) -25 °C ... +70 °C / -13 ... +158 °F (not condensing)
Failure rate:	MTBF in years (long-term usage at 60 °C / 140 °F):	AX345: 37.6 a AX346: 37.3 a AX347: 35.6 a AX348: n. a.
Conformity and standards:	EMC 2014/30/EU: LV 2014/35/EU: (Only for option AC and RL) RoHS (II) 2011/65/EU RoHS (III) 2015/863:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-1 EN 61010-1 EN IEC 63000