



touchMATRIX Indicator AX350

Process indicator with two 16 bit analog inputs, touchscreen and graphic display

Product Features:

- Operating modes for visualization of input 1, input 2 or combinations of (IN1+IN2, IN2-IN2, IN1xIN2, IN1:IN2)
- Two universal 16 bit analog inputs for -10 ... +10 V / 0 ... 10 V / 0 ... 20 mA / 4 ... 20 mA
- High accuracy reference output 10 V for potentiometers > 1 kOhm
- Bright and high-contrast display with event-dependent color variations
- Emulation of a 7-segment display inclusively icons and units
- Intuitive and easy parameterization by plain text and touchscreen
- 24 V auxiliary output for encoder supply
- Totalisator for each input
- Linearization with 24 control points for each input
- Numerous features, e. g. tara, averaging filter, sampling time for each input
- 3.78 x 1.89 inch norm panel housing and IP65 protection

Available Options:

AX350: Basic unit with 2 analog inputs (16 Bit), 3 control inputs

- Option **AC:** Power supply 115...230 VAC
- Option **AO:** 16 bit analog output, 4 control outputs, serial RS232 interface
- Option **CO:** 4 control outputs, serial RS232 interface
- Option **RL:** 2 relay outputs

All options can be combined

| Technical Specifications: | | |
|--|--------------------------|---|
| Connections: | Connector type: | screw terminal, 1.5 mm ² / AWG 16 |
| Power supply (DC): | Input voltage: | 18 ... 30 VDC |
| | Protection circuit: | reverse polarity protection |
| | Consumption: | approx. 100 mA (unloaded) |
| | Fuse protection: | extern: T 0.5 A |
| Power supply (AC): (Option AC) | Input voltage: | 115...230 VAC, 50...60 Hz) |
| | Power consumption: | approx. 3 VA (unloaded) |
| | Fuse protection: | extern: T 1.0 A |
| Encoder supply: | DC version: | approx. 1 V lower than the power supply voltage |
| | Output current: | max. 250 mA |
| | AC version (AC350): | approx. 24 V (± 15%) |
| | Output current: | 150 mA until 45°C / 80 mA by more than 45°C |
| Reference output: | Output voltage: | 10 V |
| | Accuracy: | ± 0.1 % |
| | Load: | max. 10 mA |
| Analog inputs: | Number of inputs: | 2 |
| | Configuration: | current or voltage operation |
| | Voltage input: | -10 ... +10 V (Ri ≈ 50 kOhm) |
| | Current input: | 0 ... 20 mA / 4 ... 20 mA (Ri ≈ 100 Ohm) |
| | Resolution: | 16 bit |
| | Accuracy: | ± 0,1 % |
| Control inputs: | Number of inputs: | 3 |
| | Format: | HTL, PNP (Low 0 ... 3 V, High 9 ... 30 V) |
| | Frequency: | max. 10 kHz |
| | Load: | max. 2 mA / Ri > 15 kOhm / 470 pF |
| Analog output: (Option AO) | Configuration: | current or voltage operation |
| | Voltage output: | -10...+10 V (max. 2 mA) |
| | Current output: | 0/4 ... 20 mA (burden: max. 270 Ohm) |
| | Resolution: | 16 Bit |
| | Accuracy: | ± 0,1 % |
| | Reaction time: | < 150 ms |
| Control outputs: (Option AO/CO) | Number of outputs: | 4 |
| | Format / level: | 5 ... 30 V (depends on the Com+ voltage), PNP |
| | Output current: | max. 200 mA |
| | Reaction time: | < 1 ms |
| Relay outputs: (Option RL) | Number of outputs: | 2 |
| | Configuration: | potential free changeovers |
| | AC-Switching capacity: : | max. 250 VAC / 3 A / 750 VA |
| | DC-Switching capacity: | max. 150 VDC / 2 A / 50 W |
| | Reaction time: | < 20 ms |
| Serial interface: (Option AO/CO) | Format: | RS232 |
| | Baudrate: | 9600, 19200 or 38400 baud |
| Display: | Type: | Graphic LCD with backlight |
| | Display range: | 8 digits plus sign (-99999999 ... 99999999) |
| | Digit height: | 13 mm |
| | Color: | red/ green / yellow (switchable) |
| | Operation: | resistive touchscreen |
| Housing: | Material: | ABS, UL 94 V-0 |
| | Mounting: | panel |
| | Dimensions (w x h x d): | 96 x 48 x 116 mm / 3.78 x 1.89 x 4.56 inch |
| | Cut out (w x h): | 91 x 43 mm / 3.58 x 1.69 inch |
| | Protection class: | IP65 (front), IP20 (rear) |
| | Weight: | approx. 200 g |
| Ambient temperature: | Operation: | -20 °C ... +60 °C resp. -4 ... 140 °F |
| | Storage: | -25 °C ... +70 °C resp. -13 ... 158 °F |
| Conformity and standards: | EMC 2004/108/EC: | EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 |
| | LV 2006/95/EC | EN 61010-1 |
| | RoHS 2011/65/EU: | EN 50581 |