



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 inputs (1+2, 1-2, 1x2, 1:2)
- 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 **AR:** 16 bit analog output, 4 control outputs, serial RS485 interface
- Option **CO:** 4 control outputs, serial RS232 interface
- Option **CR:** 4 control outputs, serial RS485 interface
- Option **RL:** 2 relay outputs
- Option **IO:** IO-Link Device V1.1

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 ± 10%, 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 resp. 113°F / 80 mA by more than 45°C resp. 113°F
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 ≈ 33 kOhm)
	Current input:	0 ... 20 mA / 4 ... 20 mA (Ri ≈ 100 Ohm)
	Resolution / Accuracy:	16 bit / ± 0,1 %
Control inputs:	Number of inputs:	3
	Format:	HTL, PNP (Low 0 ... 3 V, High 9 ... 30 V)
	Frequency:	max. 1 kHz
	Reaction time:	1 ms
	Load:	max. 2 mA at 24 VDC
Analog output: (Option AO/AR)	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 % 0°C ... +45°C / ± 0,1 % + 32°F ... + 113°F ± 0,15 % -20°C ... 0°C and +45°C ... +60°C / ± 0,15 % -4°F ... +32°F and +113°F ... +140°F
	Reaction time:	< 10 ms (as of software version: AX35006F)
Control outputs: (Option AO/AR/CO/CR)	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/AR/CO/CR)	Format (Option AO/CO):	RS232
	Format (Option AR/CR)	RS485
	Baudrate:	9600, 19200 or 38400 baud
IO-Link: (Option IO)	Module / Revision:	Device / V1.1
	Bitrate:	COM 3
	Port Class:	Typ A
Display:	Type:	Graphic LCD with backlight
	Display range:	8 digits plus sign (-99999999 ... 99999999)
	Digit height (single + dual):	13 mm (0,51 inch)
	Digit height (large display):	26 mm (1,02 inch)
	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 °F... +140 °F non condensing
	Storage:	-25 °C ... +70 °C resp. -13 °F... +158 °F
Ambient conditions:	Altitude:	max. 2000 m (6560 ft) above sea level
	Humidity:	max. 80% relative humidity up to 30°C / 86°F
	Pollution Degree:	2
Conformity and standards:	EMC 2014/30/EU:	EN 61326-1: 2013 for industrial location EN 55011: 2016 + A1: 2017 + A11: 2020 Class A
	LV 2014/35/EU: (Only for option AC and RL)	EN 61010-1: 2010 + A1:2019 + AC: 2019-04 EN IEC 61010-2-201: 2018
	RoHS (II) 2011/65/EU	
	RoHS (III) 2015/863:	EN IEC 63000: 2018