



touchMATRIX[®] Indicator DM350

DMS indicator for force sensors (full bridge), touchscreen und graphic display

Product features:

- 16 bit analog input
- Bright and high-contrast display with event-dependent color variations
- Emulation of a 7-segment display inclusively icons and units
- Intuitive und easy parameterization by plain text and touchscreen
- Connection for one DMS full bridge sensor
- Adjustable bridge voltage from 3 VDC to 10 VDC
- Adjustable gain range from ± 5 mV to ± 80 mV
- Three HTL inputs for triggering of different states
- Four outputs for displaying of different states
- 3.78 x 1.89 inch norm panel housing and IP65 protection

Available options:

DM350: Basic unit with 1 analog input (16 bit), 3 control inputs

- Option **AC:** Power supply 115...230 VAC
- Option **AO:** 16 bit analog output, 4 control outputs, RS232 interface
- Option **AR:** 16 bit analog output, 4 control outputs, RS485 interface
- Option **CO:** 4 control outputs, RS232 interface
- Option **CR:** 4 control outputs, RS485 interface
- Option **RL:** 2 relay outputs

Technical Specifications:		
Connections:	Connector type:	Screw terminals, 1,5 mm ² / AWG 16
Power supply DC:	Input voltage: Protection circuit: Consumption: Ripple: Fuse protection:	18 ... 30 VDC reverse polarity protection approx. 100 mA (unloaded) ≤ 10 % extern: T 0,5A
Power supply AC: (option AC)	Input voltage: Power consumption: Fuse protection:	115...230 VAC, (50...60 Hz) approx. 3 VA (unloaded) extern: T 0,1 A
DMS supply:	Output voltage: Output current:	3-10 VDC max. 50 mA
DMS inputs:	Configuration: Sensitivity: Resolution: Accuracy:	Voltage input / full bridge +/- 5mV, +/-10mV, +/-20mV, +/-40mV, +/-80mV 16 bit +/- 0.01% / 10K
Control inputs:	Number of inputs: Format: Frequency: Reaction time: Load:	3 HTL, PNP (Low 0 ... 4 V, High 10 ... 30 V) max. 1 kHz 1 ms max. 3mA bei 24VDC
Analog output: (option AO/AR)	Configuration: Voltage output: Current output: Resolution / Accuracy Reaction time:	Current or voltage output -10 ... +10 V (max. 2 mA) 0/4 ... 20 mA (burden max. 270 Ohm) 16 bit / ± 0,1 % depending on the OSR value and the filter
Control outputs: (option AO/AR/CO/CR)	Number of outputs: Format: Output current: Reaction time:	4 5 ... 30 V (depending on voltage at Com+), PNP max. 60 mA < 1 ms
Relay outputs: (option RL)	Number of outputs: Configuration: AC-switching capacity: DC-switching capacity: Reaction time:	2 COM, NO, NC (potential free) max. 250 VAC / 3 A / 750 VA max. 150 VDC / 2 A / 50 W < 20 ms
Serial interface: (option AO/AR/CO/CR)	Format (option AO/CO): Format (option AR/CR) Baud rate: Protocol:	RS232 2-wire RS485 9600, 19200 or 38400 Baud LECOM, MODBUS
Display:	Type: Display range: Digit height (single + dual): Digit height (large display): Color: Operation:	graphic LCD with backlight 8 digits plus sign (-99999999 ... 99999999) 13 mm / 0.51 inch 26 mm / 1.02 inch red/ green/ yellow (switchable) resistive touchscreen
Housing:	Material: Mounting: Dimensions (w x h x d): Cut out (w x h): Protection class: Weight:	ABS, UL 94 V-0 panel 96 x 48 x 116 mm / 3.78 x 1.89 x 4.56 inch 91 x 43 mm / 3.58 x 1.69 inch IP65 (front), IP20 (rear) approx... 200 g
Ambient temperature:	Operation: Storage:	-20 °C ... +60 °C resp. -4 ... 140 °F (non condensing) -25 °C ... +70°C resp. -13 ... 158 °F
Ambient conditions:	Altitude: Humidity: Pollution Degree:	max. 2000 m (6560 ft) above sea level max. 80% relative humidity up to 30°C / 86°F 2
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 61326-1: 2013 for industrial location EN 55011: 2016 + A1: 2017 + A11: 2020 Class A EN 61010-1: 2020 + A1: 2019 + AC: 2019-04 EN IEC 61010-2-201: 2018 EN IEC 63000: 2018