

DIGITAL DISPLAY

for industrial applications



Content:

| | |
|-------------------------------|--------------|
| Technical Data |2 |
| Technical Drawing |3 |
| Models And Accessories |3 |

Series WAY-AX

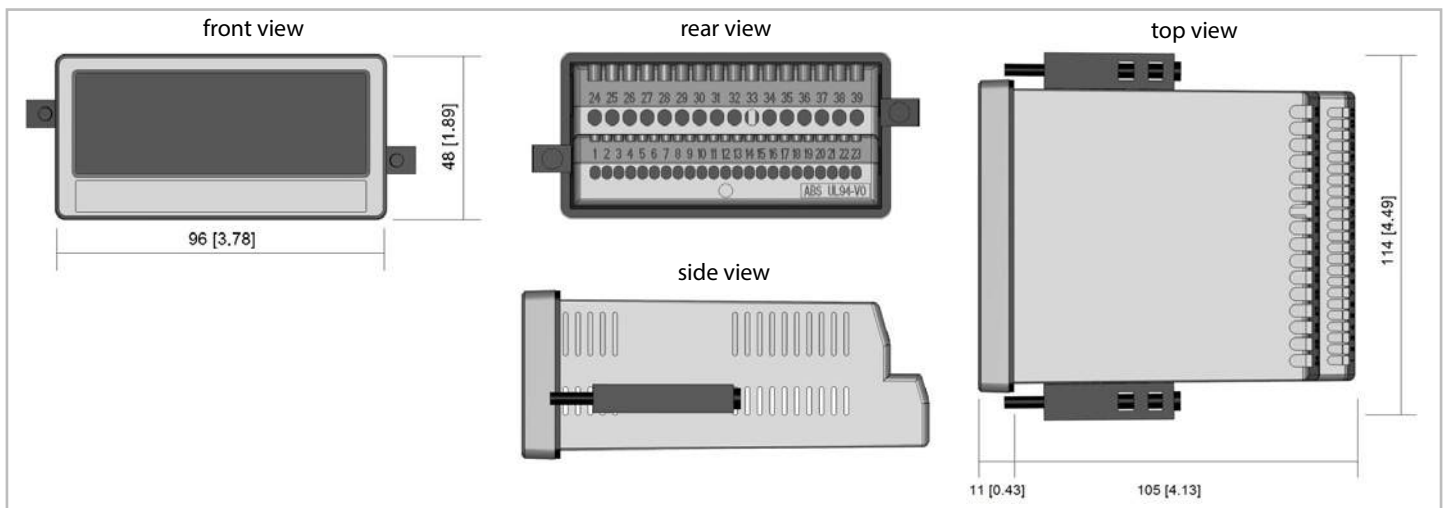
Key-Features:

- Multifunctional display with touchscreen
- Display range: 8 digits plus sign
- Inputs analog: -10...10 V, 0...10 V, 0...20 mA, 4...20 mA
- High accuracy reference output 10 V for potentiometers >1 k Ω
- Sensor supply: 24 VDC
- Possible options (all combinable):
 - Option AC: power supply 115...230 VAC
 - Option AO: analog output, 4 control outputs and RS232 interface
 - Option CO: 4 control outputs and RS232 interface
 - Option RL: 2 relay outputs
 - Option CR: 4 control outputs, RS485 interface

TECHNICAL DATA

| | |
|--|--|
| 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) Colour: red / green / yellow (selectable) Operation: resistive touchscreen |
| Connections | screw terminal, 1.5 mm ² / AWG 16 |
| Power supply DC | Input voltage: 18...30 VDC Consumption: approx. 100 mA (unloaded) Fuse protection: external: T 0.5 A Protection circuit: reverse polarity protection |
| Power supply AC (Option AC) | Input voltage: 115...230 VAC ±10 %, (50 ... 60 Hz) Power consumption: approx. 3 VA (unloaded) Fuse protection: external: T 1.0 A |
| Encoder supply (DC Version) | approx. 1 V lower than the power supply voltage, max. 250 mA |
| Encoder supply (AC Version) | approx. 24 VDC (±15 %), max 150 mA until 45 °C resp. 113°F/ 80 mA by more than 45 °C resp. 113°F |
| Analog inputs | Number of inputs: 2 Configuration: current or voltage operation Voltage input: -10...+10 V (Ri ≈ 33 kΩ) Current input: 0...20 mA / 4...20 mA (Ri ≈ 100 Ω) Resolution / Accuracy: 16 bit / ±0,1 % |
| Reference output | Output voltage: 10 V Accuracy: ±0.1 % Load: max. 10 mA |
| 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) | Voltage output: -10...+10 V (max. 2 mA) Current output: 0/4...20 mA (burden: max. 270 Ω) 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 |
| Control outputs (Option AO / AR / CO / CR) | Number of outputs: 4 Format / level: 5...30 V (depend 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. 50 VDC / 1 A / 50 W Reaction time: <20 ms |
| Serial interface (Option AO / AR / CO / CR) | Format (AO / CO): RS232 Format (AR / CR): RS485 Baud rate: 9600, 19200 or 38400 baud |
| Working temperature | -20...+60 °C resp. -4 °F...+140 °F (non condensing) |
| Storage temperature | -25...+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 |
| Housing | Material: ABS, UL 94 V-0 Dimensions: 96 x 48 x 116 mm |
| Panel cut out | 91 x 43 mm |
| Protection class | IP65 (front), IP20 (rear) |
| Weight | approx. 200 g |
| Conformity and standards | EMV 2014/30/EU: EN 61326-1: 2013 for industrial location EN 55011: 2016 + A1: 2017 + A11: 2020 + A2: 2021 Class A NS 2014/35/EU: EN 61010-1: 2020 + A1: 2019 + AC: 2019-04 NS 2014/35/EU (Nur für Option AC und RL): EN IEC 61010-2-201: 2018 RoHS (II) 2011/65/EU RoHS (III) 2015/863: EN IEC 63000: 2018 |

TECHNICAL DRAWING



HOUSINGS

Aluminium housing GEH0IP65

- black powder coating
- internal grounding terminal
- protection class: IP65
- dimensions (W x H x D): 168 x 83 x 220 mm
- delivery: housing, mounting material
- without cable passages (must be drilled individually)



Table housing TG9648

- for all displays with front dimensions 96 x 48 mm
- dimensions (W x H x D): 114 x 62 x 176 mm
- delivery: housing, mounting material



MODELS

| | |
|-----------------|--|
| WAY-AX-S | Process Indicator |
| WAY-AX-RL | Process Indicator with 2 relay outputs |
| WAY-AX-AO | Process Indicator with RS232 interface, analog and 4 control outputs |
| WAY-AX-CO | Process Indicator with RS232 interface and 4 control outputs |
| WAY-AX-CO-RL | Process Indicator with RS232 interface, 4 control and 2 relay outputs |
| WAY-AX-AO-RL | Process Indicator with RS232 interface, analog, 4 control and 2 relay outputs |
| WAY-AX-AC | Process Indicator with AC supply |
| WAY-AX-AC-RL | Process Indicator with AC supply and 2 relay outputs |
| WAY-AX-AC-AO | Process Indicator with AC supply, RS232 interface, analog and 4 control outputs |
| WAY-AX-AC-CO | Process Indicator with AC supply, RS232 interface and 4 control outputs |
| WAY-AX-AC-AO-RL | Process Indicator with AC supply, RS232 interface, analog, 4 control and 2 relay outputs |
| WAY-AX-AC-CO-RL | Process Indicator with AC supply, RS232 interface, 4 control and 2 relay outputs |

ACCESSORIES

| | |
|-----------------------|---|
| TG9648 | Table housing |
| GEH0IP65 | Aluminium housing, IP65 |
| Preset Display Analog | Pre-adjustment according to customer specifications |

Subject to change without prior notice.

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