

# DIGITAL DISPLAY

for industrial applications



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## Series WAY-AX

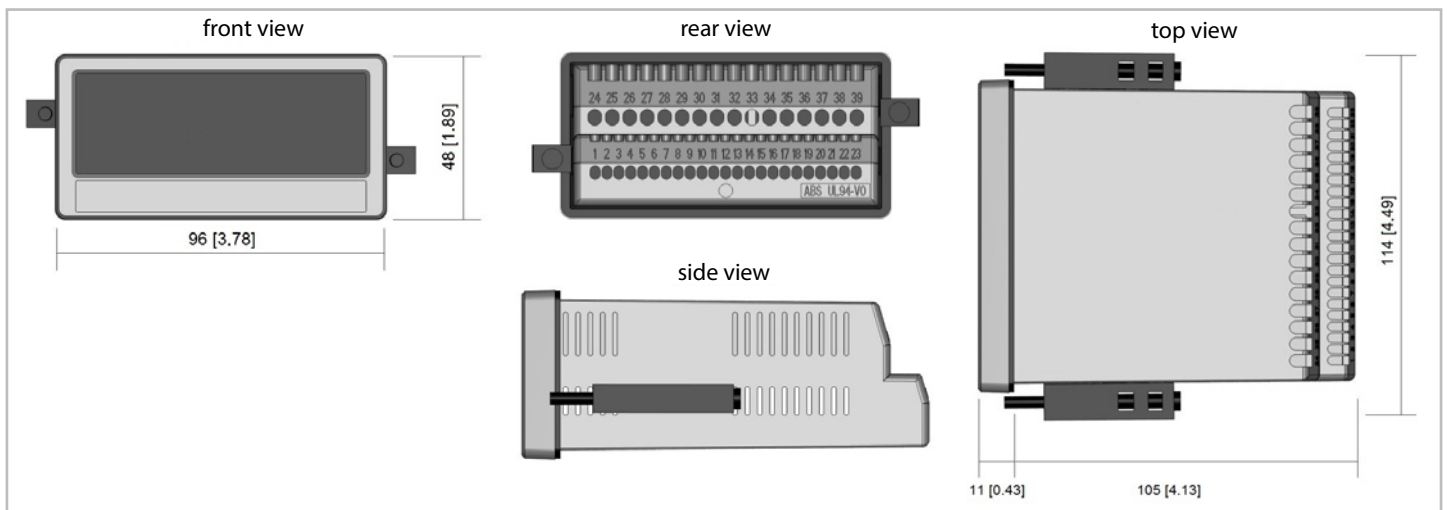
### Key-Features:

- 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 $\Omega$
- 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 and touchscreen<br>Display range: 8 digits plus sign (-99999999...99999999)<br>Digit height: 13 mm<br>Colour: red / green / yellow (selectable)                             |
| Connections                                    | screw terminal, 1.5 mm <sup>2</sup> / AWG 16   |
| Power supply DC                                | Input voltage: 18...30 VDC<br>Consumption: approx. 100 mA (unloaded)<br>Fuse protection: external: T 0.5 A<br>Protection circuit: reverse polarity protection  |
| Power supply AC<br>(Option AC)                 | Input voltage: 115...230 VAC (50 ... 60 Hz)<br>Power consumption: approx. 3 VA (unloaded)<br>Fuse protection: external: T 1.0 A  |
| Encoder supply<br>(DC Version)                 | approx. 1 V lower than the power supply voltage,<br>max. 250 mA  |
| Encoder supply<br>(AC Version)                 | approx. 24 VDC (±15 %),<br>max 150 mA until 45 °C / 80 mA by more than 45 °C   |
| Analog inputs                                  | Number of inputs: 2<br>Configuration: current or voltage operation<br>Voltage input: -10...+10 V (Ri ≈ 50 kΩ)<br>Current input: 0...20 mA / 4...20 mA (Ri ≈ 100 Ω)<br>Resolution / Accuracy: 16 bit / ±0,1 % |
| Control inputs                                 | Number of inputs: 3<br>Format: HTL, PNP (Low 0...3 V, High 9...30 V)<br>Frequency: max. 10 kHz<br>Load: max. 2 mA / Ri >15 kΩ / 470 pF   |
| Analog output<br>(Option AO / AR)              | Voltage output: -10...+10 V (max. 2 mA)<br>Current output: 0/4...20 mA (burden: max. 270 Ω)<br>Resolution: 16 Bit<br>Accuracy: ±0.1 %<br>Reaction time: <30 ms   |
| Control outputs<br>(Option AO / AR / CO / CR)  | Number of outputs: 4<br>Format / level: 5...30 V (depend on the COM+ voltage), PNP<br>Output current: max. 200 mA<br>Reaction time: <1 ms  |
| Relay outputs<br>(Option RL)                   | Number of outputs: 2<br>Configuration: potential free changeovers<br>AC-Switching capacity: max. 250 VAC / 3 A / 750 VA<br>DC-Switching capacity: max. 150 VDC / 2 A / 50 W<br>Reaction time: <20 ms         |
| Serial interface<br>(Option AO / AR / CO / CR) | Format (AO / CO): RS232<br>Format (AR / CR): RS485<br>Baud rate: 9600, 19200 or 38400 baud   |
| Working temperature                            | -20...+60 °C   |
| Storage temperature                            | -25...+70 °C   |
| Housing  | Material: ABS, UL 94 V-0<br>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                       | EMC 2014/30/EU: EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-1<br>LV 2014/35/EU: EN 61010-1 (options AC and RL only)<br>RoHS (II) 2011/65/EU, RoHS (III) 2015/863: EN IEC 63000                        |

## 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           | Configuration | Pre-adjustment according to customer specifications |
| GEH0IP65 | Aluminium housing, IP65 |               |   |

Subject to change without prior notice.

**WayCon Positionsmesstechnik GmbH**

email: [info@waycon.de](mailto:info@waycon.de)  
internet: [www.waycon.biz](http://www.waycon.biz)

**WayCon**

Positionsmesstechnik

**Head Office**

Mehlbeerstr. 4  
82024 Taufkirchen  
Tel. +49 (0)89 67 97 13-0  
Fax +49 (0)89 67 97 13-250

**Office Köln**

Auf der Pehle 1  
50321 Brühl  
Tel. +49 (0)2232 56 79 44  
Fax +49 (0)2232 56 79 45