

**ACT20D-LED-UI-AC-DC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Devices in this series display universal analogue process values.

Depending on the version, the devices convert/isolate the signals into an analogue current signal and have additional limit value relays which switch further signals.

Features:

- Several sensor variants can be processed.
- An auxiliary power supply is required.
- Even in unfavourable lighting conditions, the display value is clearly visible.

**General ordering data**

Version	Display, Input : I/U universal, Temperature, Potentiometer, Output : Display
Order No.	<a href="#">2920050000</a>
Type	ACT20D-LED-UI-AC-DC
GTIN (EAN)	4099986580343
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Depth	120 mm	Depth (inches)	4.724 inch
Height	48.8 mm	Height (inches)	1.921 inch
Width	96.6 mm	Width (inches)	3.803 inch
Net weight	999 g		

**Temperatures**

Operating temperature	-20 °C...60 °C	Humidity	5...95 % rel. humidity, no condensation
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**Display**

Cycle time	2.2 times / s	Decimal point	configurable, 9.999, 99.99, 999.9, 9999
Dimmable	Yes	Display range	-1999...9999
Display value	current measured value, Percentage or real value display, Switching status	Format	14 segment (numbers + letters), Scrolling text in 8 languages in case of error (e.g. sensor wire breakage, input overrange...)
Scaling	Variable	Type	red LED, 4-character display, Digit size: 13.8 mm

**General data**

Accuracy	<0.1 % of measuring range	Configuration	Front push-button
DIN Rail compatibility	No	Power consumption	2.2 W
Protection degree	IP20, IP65 (in plugged condition), IP65	Temperature coefficient	≤0,01% of measurement range/°C
Type of connection	Tension clamp connection with actuator	Type of mounting	Frontpanel mounting, Front mounting
Voltage supply	21.6...253 VAC, (50...60 Hz) or 19.2...300 VDC		

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## Technical data

### Input

Input current	0...20 mA, 4...20 mA	Input resistance	0...10 kΩ
Input resistance, voltage	> 10 MΩ	Input voltage	0...1 V DC, 0.2...1 V DC, 0...10 V DC, 2...10 V DC
Line resistance in measuring circuit	50 Ω	Number of inputs	1
Potentiometer	10 Ω...10 kΩ	Response time	configurable 1...60 s (temperature input), configurable 0.4...60 s (mA / V input)
Sensor	2-wire transmitter (without own power supply), 4-wire sensor (with own power supply), RTD (2,3-wire): Pt100, Pt200, Pt1000, Ni120, Cu10, Thermocouples: B / C / E / J / K / L / N / R / S / T / W3 / W5, Resistance measurement, Potentiometer: 10 Ω...10 kΩ	Sensor supply	> 15 V DC at 20 mA
Temperature input range	E: (-100...+1000 °C), J: (-100...+1200 °C), K: (-180...+1372 °C), L: (-200...+900 °C), N: -180...+1300 °C, R: (-50...+1760 °C), S: (-50...+1760 °C), T: (-200...+400 °C), U: (-200...+600 °C), W3: (0...+2300 °C), W5: (0...+2300 °C), LR: (-200...+800 °C), PT100 / 200 / 1000: -200 °C...+850 °C, NI1000: -60 °C...+250 °C, CU10: -100...+260 °C	cold junction compensation	internal

### Insulation coordination

EMC standards	EN 61326-1	Insulation voltage	2.3 kVAC (Test) / 250 VAC (operating state)
Pollution severity	2		

### Connection data

Wire connection method	Screw connection: plug-gable, pluggable	Type of connection	Tension clamp connection with actuator
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 12
Wire connection cross section, finely stranded, min.	0.13 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	2.8 mm <sup>2</sup>

### Classifications

ETIM 6.0	EC000677	ETIM 7.0	EC000677
ETIM 8.0	EC000677	ETIM 9.0	EC000677
ECLASS 9.0	27-14-31-10	ECLASS 9.1	27-21-03-01
ECLASS 10.0	27-14-31-10	ECLASS 11.0	27-14-31-10
ECLASS 12.0	27-14-31-10	ECLASS 13.0	27-14-31-10

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REACH SVHC	Lead 7439-92-1 Potassium perfluorobutane sulfonate 29420-49-3
SCIP	f4905d12-f516-4eb5-90a8-8c87685bc956

**Important note**

Product information	The device is a built-in device used to digitally display process values such as current, voltage, resistance, temperature and potentiometer signals in real-time. The device is designed for switch panel installation in a visible area. The device may only be used indoors.
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**Approvals**

Approvals



ROHS	Conform
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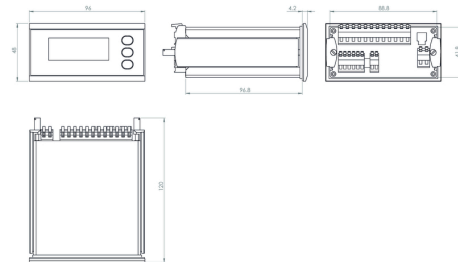
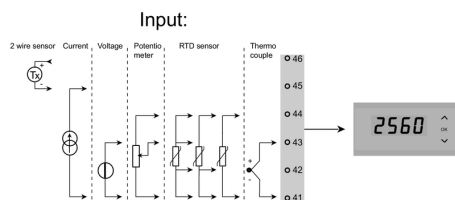
**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">RCM certification</a> <a href="#">DNV certification</a> <a href="#">UL certification</a> <a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

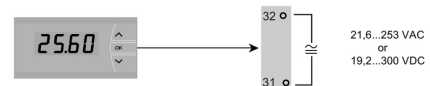
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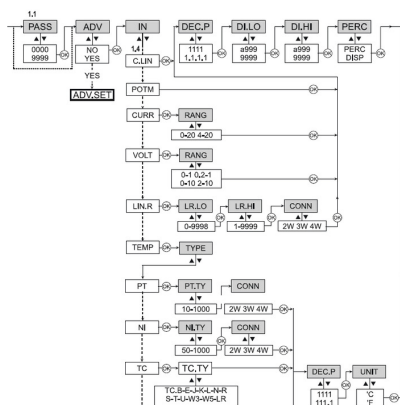
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**Drawings****Dimensioned drawing****Wiring diagram****Wiring diagram**

Supply



part of setting menu



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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Process value indicators with LED display - ACT20D**

Devices in this series display universal analogue process values.

Depending on the version, the devices convert/isolate the signals into an analogue current signal and have additional limit value relays which switch further signals. Features:

- Several sensor variants can be processed.
- An auxiliary power supply is required.
- Even in unfavourable lighting conditions, the display value is clearly visible.

**General ordering data**

Type	PROTECTIVE COVER	Version
Order No.	<a href="#">2964330000</a>	Display, Hood
GTIN (EAN)	4099986768086	
Qty.	1 pc(s).	