

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, Output : Display
Order No.	2920050000
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	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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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 (tem- perature input), config- urable 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, Thermocou- ples: 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 ²	Wire connection cross section, finely stranded, max.	2.8 mm ²

Classifications

ETIM 6.0	EC000677	ETIM 7.0	EC000677
ETIM 8.0	EC000677	ETIM 9.0	EC000677
ETIM 10.0	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	ECLASS 14.0	27-14-31-10
ECLASS 15.0	27-14-31-10		

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Technical data

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/
ROHS	Conform

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
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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Downloads

Approval/Certificate/Document of Conformity	RCM certification DNV certification UL certification Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format

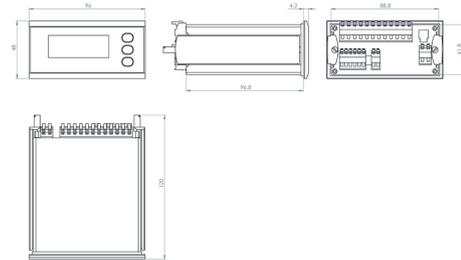
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Drawings

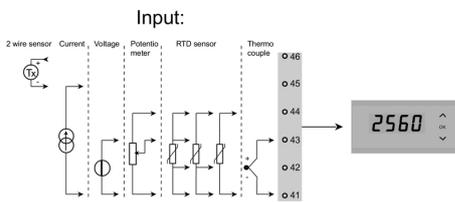
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Dimensioned drawing

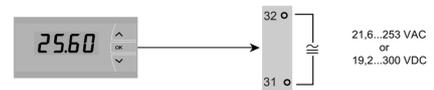


Wiring diagram

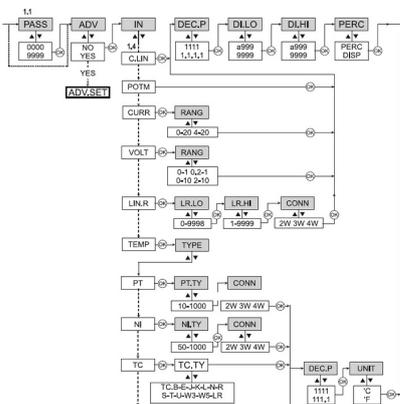
Wiring diagram



Supply



part of setting menu



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Accessories

Process value indicators with LED display - ACT20D



Devices in this series display universal analogue process values.

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- 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.	2964330000	Display, Hood, Input : I/U universal, 0-20 mA, HART® transparent,
GTIN (EAN)	4099986768086	Output : Potentiometer, Temperature, thermocouple
Qty.	1 pc(s).	