

ACT20P ACT20P-VMR-1PH-H

Weidmüller Interface GmbH & Co. KG
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Product image



ACT20P: The flexible solution

- Precise and highly functional signal converters
- Simple configuration via display (Pro DCDC II), FDT/DTM software or DIP switch
- Release levers simplify handling
- More space in the control cabinet, from 12.5 mm wide for two channels

General ordering data

Type	ACT20P-VMR-1PH-H
Order No.	7760054164
Version	Limit value monitoring, Input: single-phase voltage, Relay output
GTIN (EAN)	6944 169689079
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Width	22.5 mm	Width (inches)	0.886 inch
Height	117 mm	Height (inches)	4.606 inch
Depth	114.3 mm	Depth (inches)	4.5 inch
Net weight	198.7 g		

Temperatures

Humidity	5...85 % rel. humidity, no condensation	Operating temperature, max.	60 °C
Operating temperature, min.	-25 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-25 °C...60 °C
Storage temperature	-40 °C...85 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Number of inputs	1	Type	1 x single phase (live, neutral)
Input voltage	Channel 1: (U1-E): 110V AC/DC, Channel 2: (U2-E): 240V AC/DC, Channel 3 1: (U3-E): 400V AC/DC	Input resistance, voltage	1 MΩ±5%
Input measurement range	50...120% U_{rated} voltage	Input frequency	40...60 Hz, DC

General data

Accuracy	3% $\cdot U_{\text{rated}}$ voltage	Configuration	DIP switch and potentiometer
Galvanic isolation	3-way isolator, between input/output/supply	Measurement calibration	max: 70...120% $\cdot U_{\text{rated}}$ voltage, min: 50...100% $\cdot U_{\text{rated}}$ voltage
Power consumption	≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC	Rail	TS 35
Repeat accuracy	2% $\cdot U_{\text{rated}}$ voltage	Step response time	< 220 ms (10...90 %)
Temperature coefficient	350 ppm/K	Voltage supply	24...240 VUC ±10%

Insulation coordination

EMC standards	IEC 61326-1	Galvanic isolation	3-way isolator, between input/output/supply
Impulse withstand voltage	Supply/output: 4 kV; input/output, supply/input: 6 kV, 1.2/50 μs	Insulation voltage	2.5 kV (input/output), 2 kV input/output/power supply
Pollution severity	2	Rated voltage	300 VAC (output 1 - output 2), 300 VAC (supply-output), 500 VAC (supply-input; input-output)
Surge voltage category	III		

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Technical data**Output (digital)**

Alarm function	Surge voltage, Undervoltage, Voltage window, Holding function can be activated, Alarm delay: 0...10 s	Number of digital outputs	2
Type	2 x 1 - or 1 x 2 changeover contact relay, Relay polarity can be inverted	Max. switching voltage, DC	30 V
Max. switching voltage, AC	250 V	Rated switching current	5 A

Connection data

Type of connection	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 14

Classifications

ETIM 6.0	EC002654	eClass 6.2	27-37-18-01
eClass 9.0	27-21-01-22	eClass 9.1	27-21-01-22

Product information

Product information	<p>The ACT20P-VMR-1PH-H is a monitoring relay for DC voltage or single-phase AC voltage. The device has two independent relay outputs which emit an alarm when levels exceed or fall below preset voltage limits. The alarm can also be set to trigger after an adjustable time delay.</p> <p>Features</p> <ul style="list-style-type: none"> • Manual front-sided configuration via DIP switch, potentiometer and rotary switch • Various alarm functions: upper/lower limit value alarm, window alarm • Adjustable start and alarm delay • Front LEDs indicates operation status and malfunction[• 4-way galvanic isolation between input, output 1, output 2 and power supplyswitch
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Approvals

Approvals



ROHS

Conform

Downloads

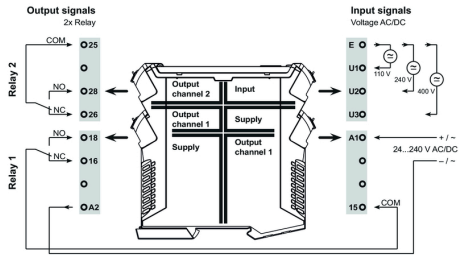
Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	STEP
Software	DIP switch configuration tool
User Documentation	Instruction sheet

**ACT20P
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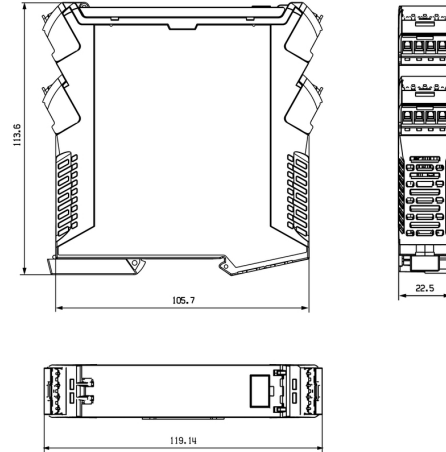
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Drawings

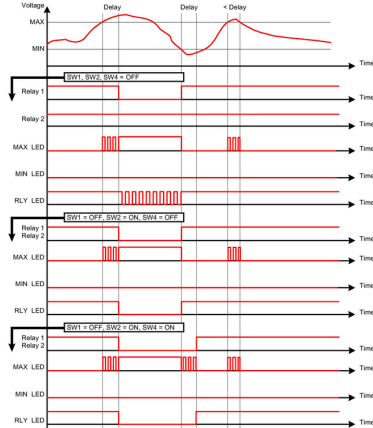
Connection diagram



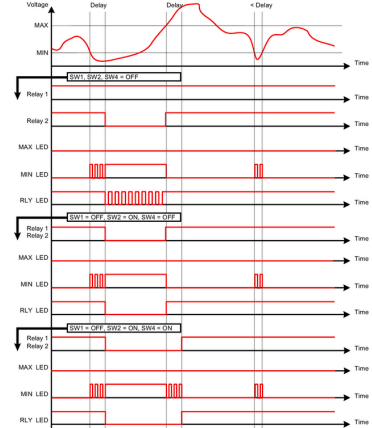
Dimensioned drawing



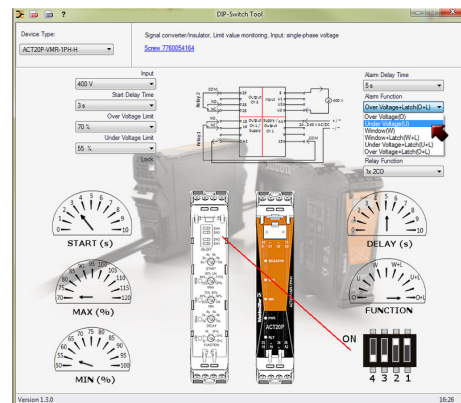
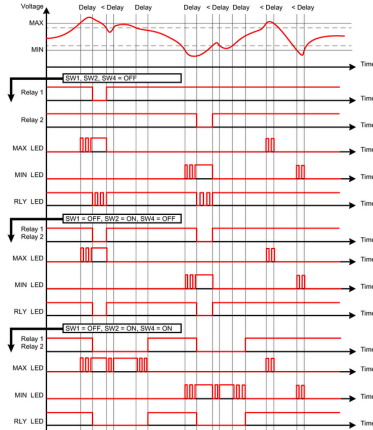
Overvoltage alarm (O)



Undervoltage alarm (U)



Window alarm (W)



example for DIP switch setting (with ACT20 tool)

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