

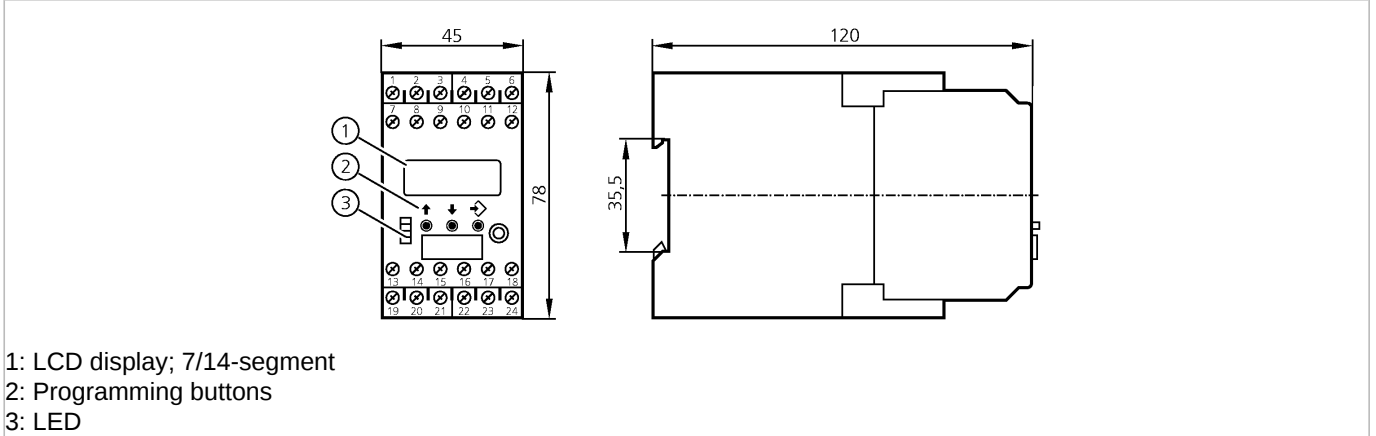
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**ecomat200**  
 DL2003



MONITOR/AL-3 /110-240VAC/DC

Evaluation systems, power supplies



1: LCD display; 7/14-segment  
 2: Programming buttons  
 3: LED



Product characteristics

MONITOR

AL-3

Housing for DIN rail mounting

programmable

scaleable display

Comparator mode (In1-In2; In1+In2)

Teach function

Key function

Signal and wire monitoring

Application

Application

Switching function

Electrical design

Electrical data

Nominal voltage [V]

Voltage tolerance [%]

Power consumption [VA]

Inputs

Reset/release input

analog

Analog inputs

Outputs

Relay

2-channel analog threshold relay for analog standard signals

Switch points in mA or the physical unit [°C; bar; etc.)

6 switching functions (limit value exceeded or not reached; window)

Subtraction and summation by means of signal combination (In1-In2; In1+In2)

2 analog inputs 0/4...20 mA

2 switching outputs (1 changeover contact and 1 x pnp each)

1 analog output 0/4..20 mA

110...240 AC (50...60 Hz) / 27 DC (typ. 24 DC)

-20...+10

8 (5 W)

Auxiliary voltage: 24 V DC  
 Current consumption: typ. 2.5 mA  
 Switch point: 11 V / 6 mA

2 x 0/4...20 mA for sensors or transmitters  
 Auxiliary voltage: 24 V DC, 150 mA, short-circuit protected  
 Measuring range: 0...22.5 mA  
 Accuracy: ± 0.25 %  
 Resolution: 12 bits  
 Internal resistance: 200 ohms  
 Sampling rate: 2 ms  
 Input frequency: max. 200 Hz

**DL2003 - MONITOR - eclass: 27279213 / 27-27-92-13**

Relay outputs	1 changeover contact each, potential-free Contact rating: 6 A (250 V AC); B300, R300 Switching times: 10...20 ms (energising); 30...40 ms (de-energising)
Transistor Transistor outputs	1 x pnp-switched each; externally supplied; short-circuit protected Switching voltage: 10...30 V DC (± 20 %) Switching current: max. 15 mA
analog Analog output	Pulse-width modulated (PWM) Current: 0/4...20 mA (max. 20.5 mA) Load: max. 500 ohms
Environment	
Ambient temperature [°C]	-25...60
Storage temperature [°C]	-25...80
Protection housing / terminals	IP 50 / IP 20
Tests / approvals	
EMC	EN 61010: 1993 + A2: 1995 EMC 89/336/EEC EN 50081-1 EN 61000-6-2
Mechanical data	
Housing materials	plastics
Weight [kg]	0.354
Displays / operating elements	
Input pulses LED	yellow
Output status indication LED	green (lights when the relay is energised / the transistor is closed)
Function display LED	LCD display; 7/14-segment
Electrical connection	
Connection	dual-chamber terminals 2 x 2.5 mm <sup>2</sup> (2 x AWG 14)
<b>Wiring</b>	
1: 24 V DC Supply voltage (L-)	
2: 24 V DC Supply voltage (L+)	
3: supply transistor outputs (L+)	
4: analog input GND	
5: analog input In1 (0/4...20 mA)	
6: analog input In2 (0/4...20 mA)	
7: AC Supply voltage (L1)	
8: AC Supply voltage (N)	
9: n.c.	
10: 24 V DC Sensor supply (L+)	
11: 24 V DC Sensor supply (L-)	
12: transistor output Output fault pnp	
13: Relay Out1 (common)	
14: Relay Out1 (normally open)	
15: Relay Out1 (normally closed)	
16: transistor output Out1 pnp	
17: release 1/2 pnp (+ 24 V DC)	
18: Reset 1/2 pnp (+ 24 V DC)	
19: Relay Out2 (common)	
20: Relay Out2 (normally open)	
21: Relay Out2 (normally closed)	
22: analog output Out3 0/4...20 mA (+)	
23: analog output Out3 0/4...20 mA (-)	
24: transistor output Out2 pnp	
Remarks	
Pack quantity [piece]	1