



CIT 350

Process Display with Contacts and Analogue Output

Functional range

- ▶ free scalable display
- ▶ five characteristic curve functions selectable (linear, square, square root, user defined or tank volume)
- ▶ switching mode, hysteresis, timing of contacts settable
- ▶ display brightness and filter adjustable
- ▶ acoustic signal

Product characteristics

- ▶ input 0/4 ... 20 mA, 0/1/2 ... 5/10 V
- ▶ 4-digit LED display
- ▶ transducer supply 24 V_{DC}
- ▶ interface RS-485 (Modbus RTU)
- ▶ front panel housing 48 x 96 mm

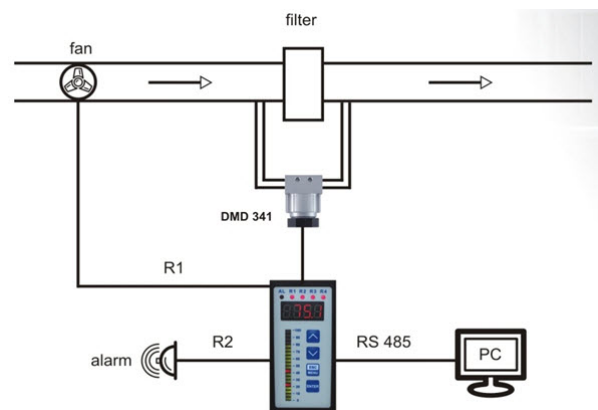
Optional versions

- ▶ output 2/4 relay / OC
- ▶ output 4 ... 20 mA / 0 ... 10 V

Typical application



filter controlling



Supply	
Supply voltage / power consumption	85 ... 260 V _{AC} / V _{DC} / max. 6,5 W 16 ... 35 V _{AC} / 19 ... 50 V _{DC} / max. 6,5 VA
Transducer supply	24 V _{DC} + 5%, - 10%, max. 100 mA
Signal input	
Input signal	0/4 ... 20 mA, 0/1 ... 5 V, 0/2 ... 10 V
Accuracy (25 °C)	± 0,1 % FSO, stability: 50 ppm/°C
Contacts	
Contact	2/4 SPST relay, max. 30 V _{DC} / 250 V _{AC} , max. 1 A (cos φ 1) 2/4 OC, max. 30 V _{DC} , max. 30 mA (cos φ 1), max. 100mW
Analogue output	
Output signal / load ¹	0/4 ... 20 mA active / max. 700 Ω 4 ... 20 mA passive / max. 600 Ω (24V DC) 0/1 ... 5 V, 0/2 ... 10 V active / min. 2000 Ω
¹ analogue output only with 2 contacts	
Display	
Display	LED, red, 4 x 9 mm + bargraph, red/green, 20 points
Display range	0/4 ... 20 mA, 0/1 ... 5 V, 0/2 ... 10 V: - 999 ... 9999 + decimal point
Communication	
Communication interface	RS-485 (Modbus RTU), 8N1/8N2, 1200 – 115200 bit/s
Ingress protection	
Standard	IP 65 (front side), IP 20 (case and connectors)
Option	IP 65 (front side with additional sealing frame for panel cut-out), IP 20 (case and connectors)
Permissible temperatures	
Standard	environment: 0 ... 50 °C, storage: -10 ... 70 °C
Option	environment: -20 ... 50 °C, storage: -20 ... 70 °C
Electrical protection	
Electrical safety	EN 61010-1
EMC	EN 61326-1
CE-conformity	EMC Directive: 2014/30/EU
Housing	
Housing type / dimensions	front panel mounting / 48 x 96 x 107 mm
Material	NORYL-GFN2S E1
Weight	approx. 220 g
Dimensions	
Accessories	
<p>Hat rail adapter for front panel housing 96 mm</p> <p>Enables mounting on a hat rail TS35.</p> <p>Material number Z900030</p>	

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Ordering code CIT 350

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Input type			
0/4 ... 20 mA, 0/1 ... 5 V, 0/2 ... 10 V	8		
Number of outputs			
without	0		
2	2		
3	3		
4	4		
Output type			
without	0		
2x / 4x SPST relay	1		
2x / 4x Open collector	2		
2x SPST relay + 1x 0/4...20 mA active	3		
2x Open collector + 1x 0/4...20 mA active	4		
2x SPST relay + 1x 4...20 mA passive	9		
2x Open collector + 1x 4...20 mA passive	A		
2x SPST relay + 1x 0/1...5 V, 0/2...10V	B		
2x Open collector + 1x 0/1...5 V, 0/2...10V	C		
Supply			
16...35 VAC / 19...50 VDC		3	
85...260 VAC / VDC		4	
Special version			
standard		0 0 0	
sealing frame IP65		0 1 0	
operating temperature -20°C...50°C		0 8 0	
IP65 + operating temp. -20...50°C		0 P 0	
customer		9 9 9	consult
Accessories			
hat rail adapter 96 mm		Z900030	