

CIT 250



Process Display with Contacts

Functional range

- ▶ free scalable display
- ▶ 4 characteristic curve functions selectable (linear, root, square function or max. 20 free selectable supporting points)
- ▶ switch mode, hysteresis, parameterizable deceleration of relay outputs
- ▶ display brightness and filter adjustable

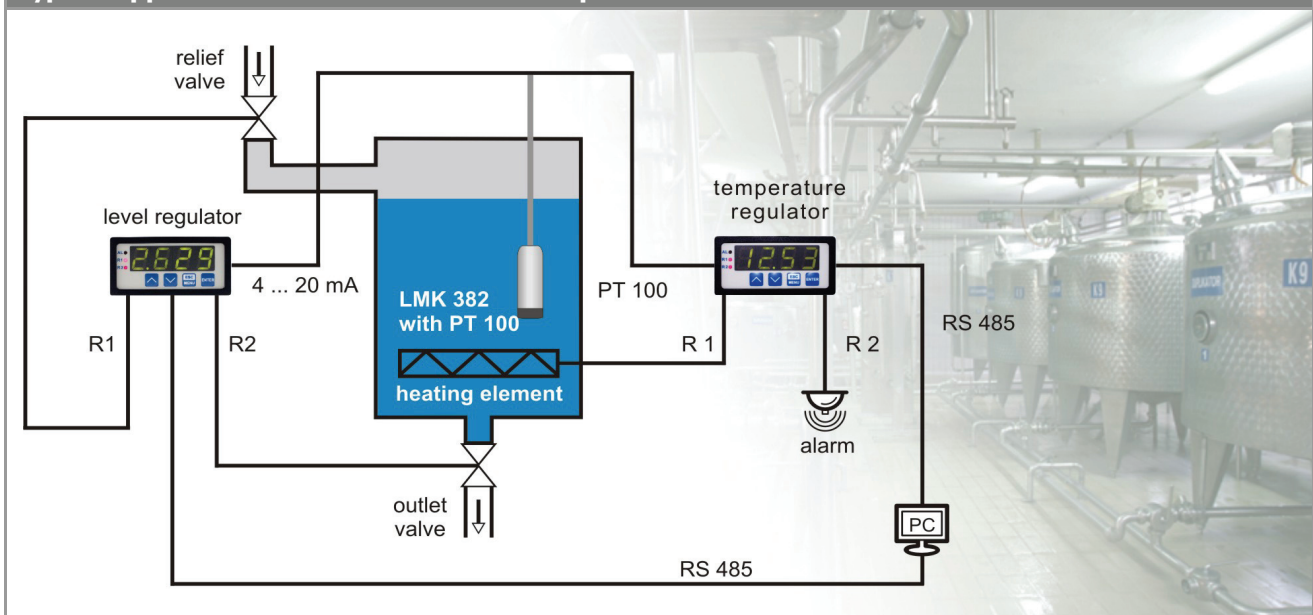
Product characteristics

- ▶ input signal: 0/4 ... 20 mA, 0/1 ... 5 V, 0/2 ... 10 V
- ▶ 4-digit LED display
- ▶ transducer supply 24 V_{DC}
- ▶ communication interface RS-485 Modbus
- ▶ front panel housing 72 x 36 mm

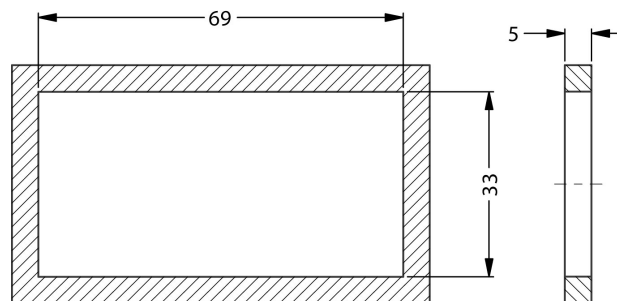
Optional versions

- ▶ input signal PT100 / PT500 / PT1000
- ▶ 1 or 2 contacts

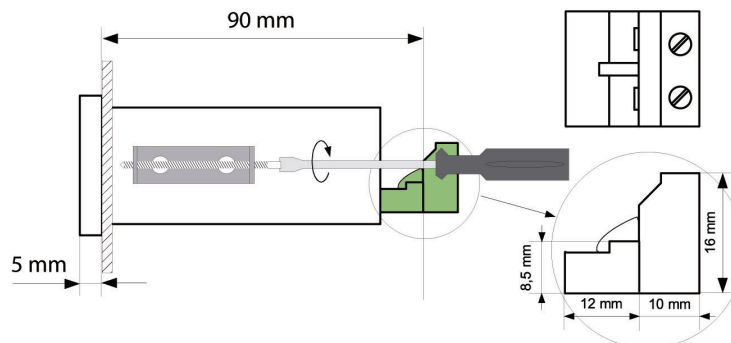
Typical application: combined level and temperature measurement in heated container



Supply	
Supply voltage	standard: 85 ... 260 V _{AC} or V _{DC} option: 16 ... 35 V _{AC} / 19 ... 50 V _{DC}
Power consumption	max. 4.5 VA or W
Signal input	
Input signal	standard: 0/4 ... 20 mA, 0/1 ... 5 V, 0/2 ... 10 V option: PT100 / PT500 / PT1000
Contacts (optional)	
Contact	1 or 2 SPST-relay
Switching voltage	max. 250 V _{AC}
Switching current	max. 1 A (cos φ 1)
Transducer supply	
DC	24 V _{DC} + 5%, - 10%, max. 100 mA
Communication / Performance	
Communication interface	RS-485 (Modbus RTU)
Transmission speed	1200 - 115200 bit/sec.
Permissible temperatures	
Operating temperature	0 ... 50 °C
Storage temperature	-10 ... 70 °C
Electrical protection	
Electrical safety	EN 61010-1
EMC	EN 61326
Miscellaneous	
Type of protection	IP 65 (front foil)
Display	4-digit LED display, red / green, 4 x 13 mm
Range of indication	- 999 ... 9999 + decimal point / temperature range: -100 ... 600 °C
Accuracy (25 °C)	± 0.1 % FSO tolerance band (0 ... 50 °C): max. 0.25 % FSO
Housing dimensions	72 x 36 x 95 mm
Housing	panel
Housing material	NORYL-GFN2S E1
CE-conformity	EMC Directive: 2004/108/WE
Dimensions (in mm)	



mounting hole dimensions



dimensions of brackets and connectors

This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

Ordering code CIT 250

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Input type					
0/4 ... 20 mA, 0/1 ... 5 V, 0/2 ... 10 V	1				
PT100, PT500, PT1000	2				
Output					
without	0				
1 SPST relay	1				
2 SPST relay	2				
Supply					
85 ... 260 V _{AC} / V _{DC}		1			
16 ... 35 V _{AC} / 19 ... 50 V _{DC}		2			
Display foil					
neutral			1 0 0		
customer			9 9 9		consult
Special version					
standard				0 0 0	
customer				9 9 9	consult

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