



CIT 700

Multichannel Process Display TFT with Contacts



Functional range

- ▶ configuration of max. 60 channels via inputs, outputs, mathematical functions, controller or virtual outputs
- ▶ allocation of clogged channels in groups (max. 6 channels per group)
- ▶ connection of channels via mathematical functions
- ▶ 5 integrated PD / PI / PID controller
- ▶ parameterizable under-run and exceeding range alarms

Product characteristics

- ▶ graphics-capable TFT monitor, touchscreen
- ▶ 3 free fittable slots
- ▶ 12 different input / output modules
- ▶ 1 digital input channel
- ▶ transducer supply 24 V_{DC}
- ▶ communication interface: RS-485 (Modbus RTU), USB-Host-Port, USB device connection
- ▶ front panel housing 96 x 96 mm

Optional versions

- ▶ communication interface: 2 x RS-485, 1 x RS-232, 2 x USB-Host-Port, Ethernet 10 MB, RJ-45

Display modes



- ▶ channel display of the individual groups with units, bargraph and scaled plus standardized measured values



- ▶ horizontal or vertical online course channel display of a group in the diagram with units and scaled measured values



- ▶ horizontal and vertical bargraph channel display of a group with units and scaled plus standardized measured values



- ▶ channel display of the individual groups as indicator instrument with units and scaled plus standardized measured values



- ▶ simultaneous display of max. 5 groups respectively 30 channels with units and scaled measured values



CIT 700

Multichannel Process Display

Technical Data

Supply	
Supply voltage	standard: 85 ... 260 V _{AC} / V _{DC} option: 19 ... 50 V _{DC} / 16 ... 35 V _{AC}
Power consumption	15 VA; max. 20 VA
Signal input/output	
Slot A	
Input module	4 x 0 ... 10 V + 4 x 0 ... 20 mA 8 x 0 ... 10 V + 8 x 0 ... 20 mA 16 x 0 ... 10 V 16 x 0 ... 20 mA 4 x PT100 / PT500 / PT1000 4 x thermocouple (J, K, S, T, N, R, B, E) 8 x thermocouple (J, K, S, T, N, R, B, E) 4 x universal input (0 ... 10 V / 0 ... 20 mA / PTxxx / thermocouple)
Slot B	
Input module	4 x 0 ... 10 V + 4 x 0 ... 20 mA 8 x 0 ... 10 V + 8 x 0 ... 20 mA 16 x 0 ... 10 V 16 x 0 ... 20 mA 4 x PT100 / PT500 / PT1000 4 x thermocouple (J, K, S, T, N, R, B, E) 8 x thermocouple (J, K, S, T, N, R, B, E) 4 x universal input (0 ... 10 V / 0 ... 20 mA / PTxxx / thermocouple)
Output module	8 relays (max. 1 A, 250 V)
Slot C	
Input module	4 x 0 ... 10 V + 4 x 0 ... 20 mA 8 x 0 ... 10 V + 8 x 0 ... 20 mA 16 x 0 ... 10 V 16 x 0 ... 20 mA 4 x PT100 / PT500 / PT1000 4 x thermocouple (J, K, S, T, N, R, B, E) 8 x thermocouple (J, K, S, T, N, R, B, E) 4 x universal input (0 ... 10 V / 0 ... 20 mA / PTxxx / thermocouple)
Output module	8 relays (max. 1 A, 250 V) 4 relays (max. 5 A, 250 V) 8 semiconductor relays (max. 100 mA, 15 V) 16 semiconductor relays (max. 100 mA, 15 V)
Transmitter supply	
DC	current inputs: 24 V _{DC} ± 5% max. 200 mA
Communication / Performance	
Communication interface	standard: RS-485 (Modbus RTU), USB Host port (on rear panel), USB device option: 3 x RS-485/RS-232, 2 x USB Host, 1 x USB device, 1 x Ethernet 10 MB
Type of protection	
Version without / with USB-port	standard: IP 65 (front foil) option: IP 42 (with lockable front)
Permissible temperatures	
Operating temperature	0 ... 60 °C
Storage temperature	-10 ... 70 °C
Electrical protection	
Electrical safety	EN 61010-1
EMC	EN 61326
Miscellaneous	
Display	TFT, 3.5", touchscreen, graphics-capable, coloured (16 bit), 320 x 240 pixels
Housing dimensions	96 x 96 x 100 mm
Housing	panel mounting
Housing material	NORYL-GFN2S E1



Ordering code CIT 700

CIT 700

□ - □□□ - □□□ - □□□ - □ - □ - □□□ - □□□

Basic version							
multichannel controller							
colour TFT display	1						
touchscreen							
Slot A							
empty		E 0 0					
4x voltage input + 4x current input		U I 4					
8x voltage input + 8x current input		U I 8					
16x voltage input		U 1 6					
16x current input		I 1 6					
4x RTD input		R T 4					
4x thermocouple input		T C 4					
8x thermocouple input		T C 8					
4x universal input		U N 4					consult
Slot B							
empty		E 0 0					
4 x voltage input + 4 x current input		U I 4					
8 x voltage input + 8 x current input		U I 8					
16 x voltage input		U 1 6					
16 x current input		I 1 6					
4 x RTD input		R T 4					
4 x thermocouple input		T C 4					
8 x thermocouple input		T C 8					
4 x universal input		U N 4					consult
8 x SPST relay 1A		R 8 1					
Slot C							
empty		E 0 0					
4 x voltage input + 4 x current input		U I 4					
8 x voltage input + 8 x current input		U I 8					
16 x voltage input		U 1 6					
16 x current input		I 1 6					
4 x RTD input		R T 4					
4 x thermocouple input		T C 4					
8 x thermocouple input		T C 8					
4 x universal input		U N 4					consult
8 x SPST relay 1A		R 8 1					
4 x SPDT relay 5A		R 4 5					
8 x SSR output		S 0 8					
16 x SSR output		S 1 6					
Supply							
85 ... 260 V _{AC/DC}					1		
16 ... 35 V _{AC} / 19 ... 50 V _{DC}					2		
Communication interface							
RS-485 (Modbus RTU) + USB device					1		
USB host port (back side)							
RS-485 (Modbus RTU) + USB device					2		
USB host port (front side)							
RS-485 (Modbus RTU) + USB device					3		
2x USB host port							
3x RS-485 / RS-232							
2x USB host port					4		
1x USB device							consult
1x Ethernet 10MB							
Display foil							
neutral					1 0 0		
customer					9 9 9		consult
Special version							
standard						0 0 0	
lockable, transparent door						A 0 1	
customer						9 9 9	consult