

CIT 700



Multichannel Process Display TFT with Contacts, Analogue Outputs and Datalogger

Functional range standard

- ▶ configuration of max. 60 channels via inputs, outputs, mathematical / logical functions, controller, profiles or virtual outputs
- ▶ allocation of clogged channels in 10 groups (max. 6 channels per group)
- ▶ connection of channels via mathematical / logical functions
- ▶ 8 integrated PD / PI / PID controller

Datalogger

- ▶ data logging of max. 60 channels
- ▶ free selectable measuring rate (max. 10 Hz)
- ▶ extensive trigger functions
- ▶ internal memory 1,5 GB

Product characteristics

- ▶ graphics-capable TFT monitor, touchscreen
- ▶ 3 free fittable slots, 16 different input / output modules
- ▶ transducer supply 24 V_{DC}
- ▶ communication interface: RS-485 (Modbus RTU) Master / Slave, 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

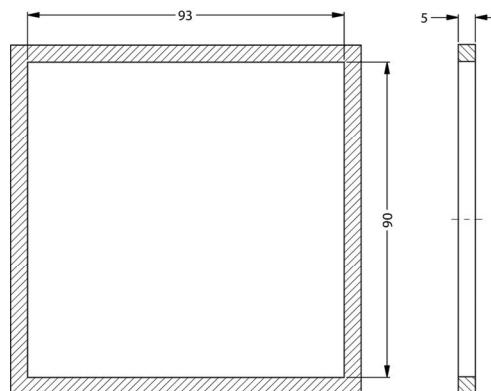
- ▶ channel display of the individual groups as indicator instrument with units and scaled plus standardized measured values

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

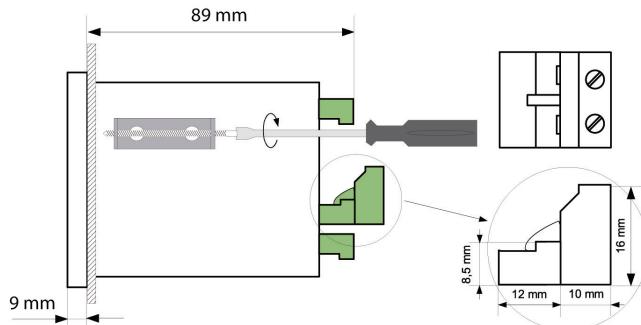


Supply				
Supply voltage	standard: 85 ... 260 V _{AC} / V _{DC} option: 19 ... 50 V _{DC} / 16 ... 35 V _{AC}			
Power consumption	15 VA, max. 20 VA			
Signal input/output				
Slot A				
Input modules	UI4 4 x 0 ... 10 V + 4 x 0 ... 20 mA ¹ UI8 8 x 0 ... 10 V + 8 x 0 ... 20 mA ¹ D08 8 x 0 ... 30 V, binary D16 16 x 0 ... 30 V, binary U16 16 x 0 ... 10 V ¹ I16 16 x 0 ... 20 mA ¹ RT4 4 x PT100 / PT500 / PT1000 TC4 4 x thermocouple (J, K, S, T, N, R, B, E) TC8 8 x thermocouple (J, K, S, T, N, R, B, E) UN3 4 x universal input (0 ... 10 V / 0 ... 20 mA / PTxxx / thermocouple)			
Slot B				
Input modules	UI4 4 x 0 ... 10 V + 4 x 0 ... 20 mA ¹ UI8 8 x 0 ... 10 V + 8 x 0 ... 20 mA ¹ D08 8 x 0 ... 30 V, binary D16 16 x 0 ... 30 V, binary U16 16 x 0 ... 10 V ¹ I16 16 x 0 ... 20 mA ¹ RT4 4 x PT100 / PT500 / PT1000 TC4 4 x thermocouple (J, K, S, T, N, R, B, E) TC8 8 x thermocouple (J, K, S, T, N, R, B, E) UN3 4 x universal input (0 ... 10 V / 0 ... 20 mA / PTxxx / thermocouple)			
Output modules	R81 8 relays (max. 1 A, 250 V) I02 2 passive analogue outputs 4 ... 20 mA I04 4 passive analogue outputs 4 ... 20 mA			
Slot C				
Input modules	UI4 4 x 0 ... 10 V + 4 x 0 ... 20 mA ¹ UI8 8 x 0 ... 10 V + 8 x 0 ... 20 mA ¹ D08 8 x 0 ... 30 V, binary D16 16 x 0 ... 30 V, binary U16 16 x 0 ... 10 V ¹ I16 16 x 0 ... 20 mA ¹ RT4 4 x PT100 / PT500 / PT1000 TC4 4 x thermocouple (J, K, S, T, N, R, B, E) TC8 8 x thermocouple (J, K, S, T, N, R, B, E) UN3 4 x universal input (0 ... 10 V / 0 ... 20 mA / PTxxx / thermocouple)			
Output modules	R81 8 relays (max. 1 A, 250 V) R45 4 relays (max. 5 A, 250 V) S08 8 semiconductor relays (max. 100 mA, 15 V) S16 16 semiconductor relays (max. 100 mA, 15 V) I02 2 passive analogue outputs 4 ... 20 mA I04 4 passive analogue outputs 4 ... 20 mA			
¹ Inputs with common ground				
Transmitter supply				
DC	24 V _{DC} ± 5%, max. 200 mA			
Communication / Performance				
Communication interface	standard: RS-485 (Modbus RTU), Master / Slave USB Host (on rear panel / front side), USB device option: 3 x RS-485/RS-232, Master / Slave 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 54 (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			

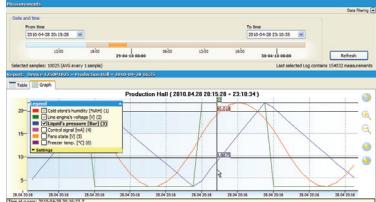
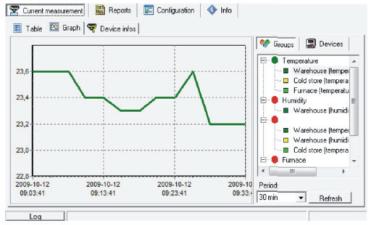
Miscellaneous	
Display	TFT, 3.5", touchscreen, graphics-capable, coloured (16 bit), 320 x 240 pixels
Housing dimensions	96 x 96 x 100 mm
Housing	panel mounting
Housing material	NORYL-GFN2S E1
Extended functions	
Programmable upper / lower deviation messages	
Programmable display filter	
Multi lingual menu navigation	
Integrated date and time display	
User defined / time controlled profiles	
Adjustable contrast and brightness of display	
Acoustical signalling of alarm conditions	
Screensaver	
Extensive password protection	
Data and configuration transfer via USB stick / Ethernet	
Dimensions (in mm)	



mounting hole dimensions



installing of brackets

Accessories		
Licence key for Datalogger function	material number LK-700	Authorised for activation of data logging for max. 60 channels. For an additional activating of function for already delivered CIT 700 the serial number is necessary.
Software DAQ-Manager	 material number SW-DAQ	<p>Program for display (table or course), archiving, evaluation and export from stored data of CIT 700 with activated data logging. The data are imported via USB removable medium or Ethernet. Export of the data is in CSV format.</p> <p>This software is freeware and may be downloaded from our homepage.</p>
Software SimCorder	 material number SW-SIM	<p>Program for display (table or course), archiving, evaluation and export from active measured values of CIT 700 with / without activated data logging. The data transfer is done via RS-485 interface (max. 16 channels). Export of the data is in TXT format.</p>
Lockable, transparent door	 material number Z900002	Prevents damage of display and increases access protection.
Mini USB Stick 2 GB	 material number Z900003	Enables data and configuration transfer between PC and CIT 700 (also with mounted door).
Converter RS-485 / USB	 material number CM-1	Enables connection of CIT 700 and PC with USB interface.
Converter RS-485 / RS-232	 material number CM-2	Enables connection of CIT 700 and PC with RS-232 interface.

Ordering Code CIT 700**CIT 700**

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

This price list contains product specification; properties are not guaranteed. Detailed information about options are defined in the datasheet. Subject to change without notice.

