

CIT 650



Multichannel Process Display LCD with Datalogger

Functional range

- ▶ direct archiving of measured values onto USB stick or internal memory
- ▶ data and configuration transfer via USB stick or RS-485
- ▶ sample rates from 1 sec up to 1 h selectable
- ▶ triggering of recorded measured values via digital input
- ▶ 2 contacts
- ▶ parameterizable under-run and exceeding range alarms
- ▶ adjustable contrast and brightness of the display
- ▶ software for parameterization display and archiving of measured values

Product characteristics

- ▶ 1, 4 or 8 analogue input ports
- ▶ input signal: 0/4 ... 20 mA
- ▶ 1 digital input port
- ▶ internal memory: 2 MB
- ▶ graphics-capable LC display
- ▶ transducer supply 24 V_{DC}
- ▶ communication interface RS-485 (Modbus RTU)
- ▶ front panel housing 96 x 96 mm

Optional versions

- ▶ input signal PT100 / PT500 / PT1000
- ▶ USB-Host-Port, internal memory: 8 MB

Display modes



- ▶ simultaneous display of max. 8 ports with scalable measured value and unit or standardized measured value and bargraph

- ▶ online course display of one port in the diagram with scalable measured value, bargraph and unit (timeline of the measured value course from 12 sec up to 96 h scalable)

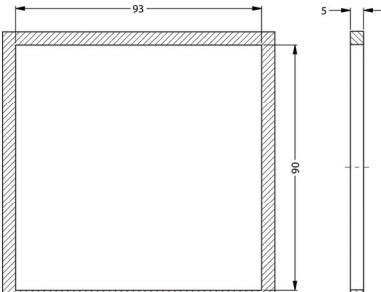
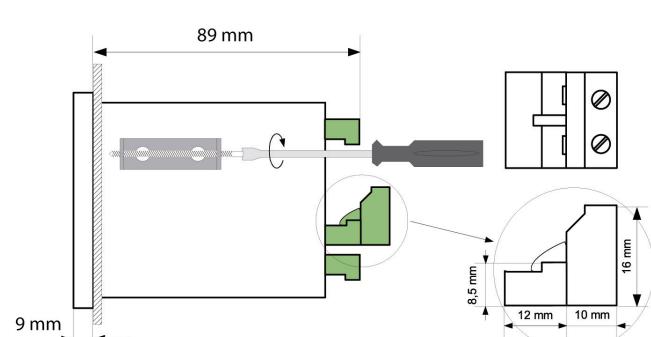
- ▶ single port display with scalable and standardized measured value, bargraph and unit



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Supply		
Supply voltage	standard: 85 ... 260 V _{AC} or V _{DC}	option: 19 ... 50 V _{DC} / 16 ... 35 V _{AC}
Power consumption	7 VA, max. 12 VA	
Signal input		
Number	1, 4 or 8 inputs ¹	
Input signal	standard: 0/4 ... 20 mA	option: PT100 / PT500 / PT1000
Measuring range	current inputs: ± 9999	temperature inputs: -100 ... 600 °C
Digital	1 input 24 V _{DC} (galvanically separated)	
¹ Inputs with common ground		
Transmitter supply		
DC (without galvanically separation)	current inputs: 24 V _{DC} $\pm 5\%$, max. 200 mA temperature inputs: max. 50 mA	
Contacts		
Contact	2 independent relay outputs	
Switching voltage	max. 24 V _{AC}	
Switching current	max. 200 mA ($\cos \varphi 1$)	
Communication / Performance		
Communication interface	standard: RS-485 (Modbus RTU)	option: USB-2.0-port (galvanically separated)
Transmission speed	1200 - 115200 bit/sec.	
Internal memory	standard: 2 MB (version without USB-2.0-port)	option: 8 MB (version with USB-2.0-port)
Type of protection		
Version without USB-port	IP 65 (front foil)	
Version with USB-port	standard: IP 40	option: IP 54 (with lockable front)
Permissible temperatures		
Operating temperature	0 ... 60 °C	
Storage temperature	-10 ... 70 °C	
Electrical protection		
Electrical safety / EMC	EN 61010-1 / EN 61326	
Miscellaneous		
Display	LCD, 128 x 64 points, with backlight	
Accuracy (25 °C)	$\pm 0.1\%$ FSO	tolerance band (0 ... 50 °C): max. 0.25 % FSO
Housing dimensions	96 x 96 x 100 mm	
Housing / housing material	panel / NORYL-GFN2S E1	
Mechanical connection (dimensions in mm)		
		
mounting hole dimensions		
		
dimensions of brackets and connectors		

Accessories		
Software LoggySoft	 <p>LoggySoft</p>	<p>LoggySoft Program for display (table or course), archiving, evaluation and export from stored data of CIT 650. The data are imported via USB removable medium or via RS-485 interface. Export of the data is in TXT format.</p> <p>This software is freeware and may be downloaded from our homepage.</p>
Software S-Toolkit	 <p>S-Toolkit</p>	<p>S-Toolkit Program for the complete configuration of CIT 650. The data are imported via USB removable medium or via RS-485 interface.</p> <p>This software is freeware and may be downloaded from our homepage.</p>
Lockable, transparent door	 <p>material number Z900002</p>	<p>Prevents damage of display and increases access protection.</p>
Mini USB Stick 2 GB	 <p>material number Z900003</p>	<p>Enables data and configuration transfer between PC and CIT 650 (also with mounted door).</p>
Converter RS-485 / USB	 <p>material number CM-1</p>	<p>Enables connection of CIT 650 and PC with USB interface.</p>
Converter RS-485 / RS-232	 <p>material number CM-2</p>	<p>Enables connection of CIT 650 and PC with RS-232 interface.</p>

Ordering Code CIT 650
CIT 650 -□-□-□-□-□-□□□-□□□

Version	1 analogue input signal	1						
	4 analogue input signals	4						
	8 analogue input signals	8						
Input type	0/4 ... 20 mA	1						
	PT100 , PT500, PT1000	2						
	customer	9						consult
Supply	standard: 85 ... 260 V _{AC} / V _{DC}	1						
	16 ... 35 V _{AC} / 19 ... 50 V _{DC}	2						
Contacts	2 OC relais outputs	1						
Interface	standard: RS-485	1						
	RS-485 + USB Host Port	2						
Display foil	neutral	1 0 0						
	customer	9 9 9						consult
Special version	standard	0 0 0						
	customer	9 9 9						consult

