



# 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
- ▶ parameterizable under-run and exceeding range alarms
- ▶ adjustable contrast and brightness of the display
- ▶ programmable display filter
- ▶ including 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<sub>DC</sub>
- ▶ communication interface RS-485 (Modbus RTU)
- ▶ front panel housing 96 x 96 mm

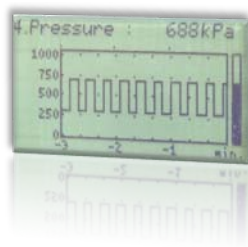
### Optional versions

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

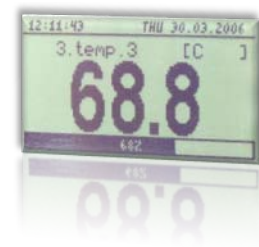
### Display modes



- ▶ 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)



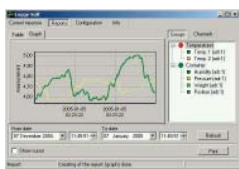
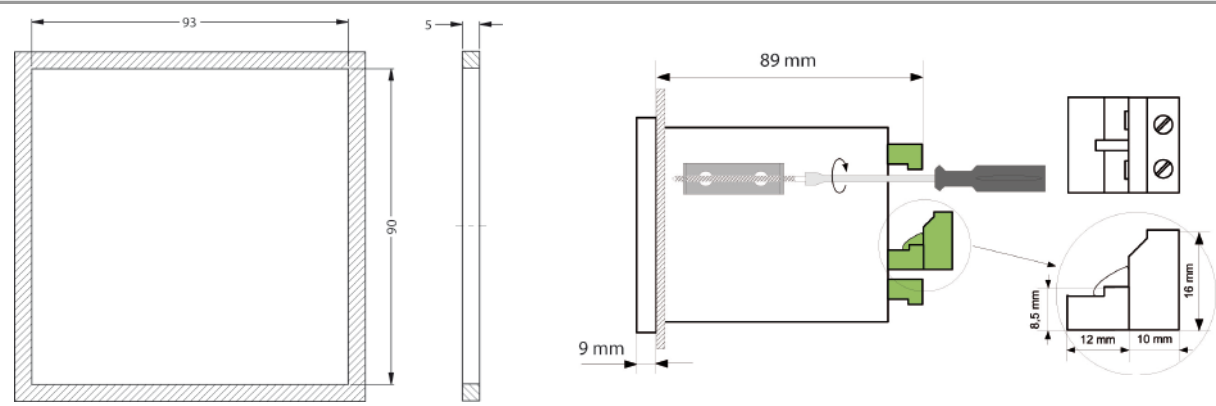
- ▶ single port display with scalable and standardized measured value, bargraph and unit



# CIT 650

Multichannel Display

Technical Data

<b>Supply</b>		
Supply voltage	standard: 85 ... 260 V <sub>AC</sub> or V <sub>DC</sub>	option: 19 ... 50 V <sub>DC</sub> / 16 ... 35 V <sub>AC</sub>
Power consumption	7 VA, max. 12 VA	
<b>Signal input</b>		
Number	1, 4 or 8 inputs	
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 <sub>DC</sub> , (galvanically separated)	
<b>Transmitter supply</b>		
DC (without galvanically separation)	current inputs: 24 V <sub>DC</sub> ± 5% max. 200 mA temperature inputs: max. 50 mA	
<b>Contacts</b>		
Contact	2 independent relay outputs	
Switching voltage	max. 24 V <sub>AC</sub>	
Switching current	max. 200 mA (cos φ 1)	
<b>Communication / Performance</b>		
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)
<b>Type of protection</b>		
Version without USB-port	IP 65 (front foil)	
Version with USB-port	standard: IP 40	option: IP 42 (with lockable front)
<b>Permissible temperatures</b>		
Operating temperature	0 ... 60 °C	
Storage temperature	-10 ... 70 °C	
<b>Electrical protection</b>		
Electrical safety / EMC	EN 61010-1 / EN 61326	
<b>Miscellaneous</b>		
Display	LCD, 128 x 64 points, with backlight	
Accuracy (25 °C)	± 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	
<b>Software</b>		
Setup-650		The Software Setup-650 enables the visualization, archiving and printing of measurements and the complete configuration of the CIT 650 via PC. The data transfer is done by the RS 485-interface of the CIT 650 or a connected converter.
<b>Mechanical connection (dimensions in mm)</b>		
		
<b>Special version</b>		
Lockable, transparent door		
<b>Accessoires</b>		
Mini USB Stick 2 GB		
Converter RS 485 / USB		
Converter RS 485 / RS 232		



## 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 <sub>AC</sub> / V <sub>DC</sub>	1						
16 ... 35 V <sub>AC</sub> / 19 ... 50 V <sub>DC</sub>	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
lockable, transparent door					A	0	1
customer					9	9	9
							consult