



## Industrial Terminal System for the CAN Bus RDISP8 / RDISP22 / RDISP27

### Brief description

The RDISP system range is the ideal solution in plants, machines, vehicles and buildings as a:

- control, observation and input device for the acquisition of production and measuring data.

The compact and stable design and the many possibilities for keyboard extensions permit almost unlimited operation.

Programming is carried out on the PC via an user-friendly editor. Easy operation under the Windows system enables clear and quick project planning.

RDISP8 / AT240x64  
RDISP22 / AT 240x64  
RDISP27 / AT 240x128

The RDISP operator panel can be linked into each CAN protocol (e.g. CANopen). Function blocks in IEC1131-3 ensure simple linking into CANtrol®//.

#### Interfaces:

CAN, RS-232 or RS422, TTY (20 mA).

### Display

The LCD display with graphics capabilities permits optimum graphic display of your visualisation solution. 8x40, 4x20, 2x10 characters and combinations of these are possible, as are displays of pictograms and graphic display images in BMP format. Contrast and brightness can be adjusted via the program or keys.

### Labelling

The function keys can be freely labelled. This is done using strips of paper which are slipped between the keys and the front cover.

The keys behind the cover are push button in design and ensure good tactile acknowledgement for secure operation.

In addition the keys of the extension blocks are provided with a heading strip, which takes the form of insertion strips.

### PC Editor

User programming of functions, menus, message texts, variable processing, protocol and statistics and multi-language capability – all this is easy to achieve with the CPRDISP PC editor.

### Free operating system

EPROM exchange is not necessary.

Operating system and data (parameters, image + message structures) are stored in the maintenance-free flash memory and can at any time be up-dated, or transferred for servicing purposes via CAN-Bus and/or serial interface.

### Special

- Maintenance-free flash memory
- Value input with numeric keyboard or cursor keys RDISP27/... RDISP22/... RDISP8/...
- 8 LEDs for signal display
- Display with graphics capabilities 8x40, 4x20, 2x10 characters and pictograms.
- High reliability (IEC, VDE (German association of electronic engineers), EN standards + CE identifier).
- Keys equipped with vandalism protection.

### Models

- **RDISP8** / AT240x64 with 8 function keys and 8 status LEDs.
- **RDISP22** / AT240x64 with 8 function keys, numeric keypad and 8 status LEDs.
- **RDISP27** / AT240x128 with 8 function keys, numeric / cursor keypad and 8 status LEDs

The devices are identical with respect to connection and software design.



### Clock, protocol and statistics (optional)

Both terminals have protocol and statistics functions and freely assignable meter panels at their disposal. The time and the date can be shown on any display page.

#### Meter panel (optional)

Meter panels can be assigned to messages, images and control sequences, that is, as long as a message is active, the meter panel will run (adding/subtracting).

#### Protocol (optional)

Variable values, image-message calls (in/out) and status events (power ON / OFF, error status) are recorded.

The date and time are recorded for each protocol entry

### Images and messages

The RDISP distinguishes between the display types, 'images' and 'messages', which can be called up independently of each other.

### Images

Images are graphical elements (pictograms, BMP files), in which text and variables are presented both numerically and graphically as bar charts or as X/Y charts.

User-programmable menu points can be called up. An image call is carried out via an image number, which corresponds to a flag in the stored-program controller, or via the menu structure contained in the image (using keys).

## ■ Messages

These can be inserted into an image in addition as texts with variables. The message call is carried out using the message number, which corresponds to a flag in the stored-program controller.

## ■ Function keys + LEDs (status display)

The keys and the LEDs are called up or set using function blocks (I/O functions).

## ■ Control + Observation

To create text, graphics and images and to determine variables, we provide an user-friendly PC editor for use with the Windows operating system.

## At a glance - a brief overview

Industry terminal (240 x 64)	RDISP22	RDISP22RTC	RDISP8	RDISP27RTC
Article no.	221200000	221200100	221100000	221300000
Display	LCD Supertwist 240 x 64 points; LED backlit			
Number of characters per line max/min	40 / 10			
Line height 2-4-8 lines	14 mm / 7 mm / 4 mm			
Standard character set	IBM set 2 and cyrillic, other characters available			
Case	integrated case			
Front	5 mm aluminium			
Keys	push buttons			
Number of keys	22 (incl. numeric keypad)		8	27
Key top	aluminium disc behind polyester cover, mechanically supported on the reverse side; secured against vandalism			
Rear	Galvanised steel plate with encircling clamp clip fixed with 2 wing nuts			
Degree of protection	IP65 to the front			
Weight	1.4 kg		1.2 kg	1,6 kg
<b>Physical dimensions</b>				
Front with plug (w x h x d)	196 x 129 x 53 mm		196 x 110 x 53 mm	266 x 146 x 56 mm
Cutout	187 x 120 mm		187 x 101 mm	252 x 130 mm
<b>Functions</b>				
Paging	automatically adjustable			
Menu (tree or other structures)	yes			
Mathematical operations	yes			
Protocol	optional			
Statistics	optional			
Contrast and brightness	adjustable using keys and program			
Time and date	optional			
Character attributes	flashing, normal and inverse representation			
Programming	with PC and CPRDISP editor			
Programmable	serial RS232 or using CAN Bus			
Value entry	numeric keyboard		cursor keys	numeric / cursor keypad
Variable	dynamic, any number can be represented as long as there is room on the display			
Variable type	BIN, integer, fixed point, bit pattern ... and others			
Display	2 texts or images with separated message number which can be represented in a display			
Memory text	128 kB flash for text and image			
Memory operating system	32 kB program, 32 kB character set			
Standard interface	RS232 optional RS422 and TTY-20 mA, galvanic insulation			
BUS	CAN Bus, galvanic insulation			
Output terminal	1			

Industry terminal (240 x 64)	RDISP22	RDISP22RTC	RDISP8	RDISP27RTC
<b>Terminal connection</b>				
CAN-Bus and supply +24 VDC	vibration resistant click-home 6-pin AMP crimp connector			
Serial interface	9-pin sub-min-D connector			
<b>Electrical data</b>				
Operational voltage	17-32 VDC with reverse voltage protection			
Fuse	electronic with PTC			
EMC	BURST	EN 61000-4-4: 24 VDC = 4 KV, data interface 1KV, BUS 2KV capacitive		
	ESD	EN 61000-4-2: 6 KV (HVR) or 8 KV (discharging)		
Power consumption at 24 VDC	50 - 350 mA max. according to display brightness			
Power consumption at 24 VDC, Keyboard	20 mA max.			
Operating temperature	-10 °C to 60 °C			

blank page