

VT505W

Control Terminal with Graphic Display for R6000 Controller

3-349-273-03
1/7.03

- **Graphic Control Panel**
1/4 VGA – 5.6" (14.2 cm)
- **STN Graphic Display**
Resolution: 320 x 240 pixels, 4 blue tones
- **Touch-Screen**
- **IP 65 Protection**
- **Modbus**
Communications protocol for the R6000
- **VTWIN Configuration Software**
32-bit application, for Windows 95, 98, NT and 2000



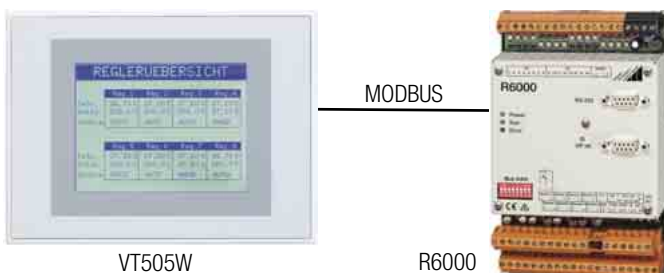
Applications

The VT505W is a user interface for controlling and displaying data. It supports the multi-channel R6000 controller system. The terminal is connected to the R6000 via the Modbus and displays actual value, setpoint and status (manual/automatic) with the standard application.

The setpoint is entered at the touch-screen. Configuration and parameter settings for the R6000 are entered during startup with the configuration tool via the service interface at the R6000.

Standard Applications

- Connection to an R6000 controller
- Overview display for all 8 control loops including actual value, setpoint and status
- Individual display for each control loop including actual value, setpoint, on-time, alarm status, manual or automatic operating mode, bar graph display for setpoint and actual value



Options

- Customer-specific adaptation of the standard application
- Expansion of the control loop overview to more than 8 channels
- VTWIN developmental software for the creation of individualized applications

Interface Connector Pin Assignments

25-pin sub-miniature socket connector

Pin	Signal	Pin	Signal
1	N.C.	14	IKT OUT
2	Tx RS232 OUT	15	IKR OUT
3	Rx RS232 IN	16	+ 5 V DC (reserved)
4	RTS RS232 OUT	17	N.C.
5	CTS RS232 IN	18	*Rx C.L. +IN
6	N.C.	19	N.C.
7	Signal GND	20	N.C.
8	N.C.	21	N.C.
9	*Tx C.L. +OUT	22	Tx RS485 +IN/OUT
10	Tx RS485 -IN/OUT	23	Tx RS422 +OUT
11	*Tx C.L. -OUT	24	Rx RS422 -IN
12	Tx RS422 -OUT	25	*Rx C.L. -IN
13	Rx RS422 + IN		
*C.L.	Current loop (TTY)	N.C.	Not connected

VT505W

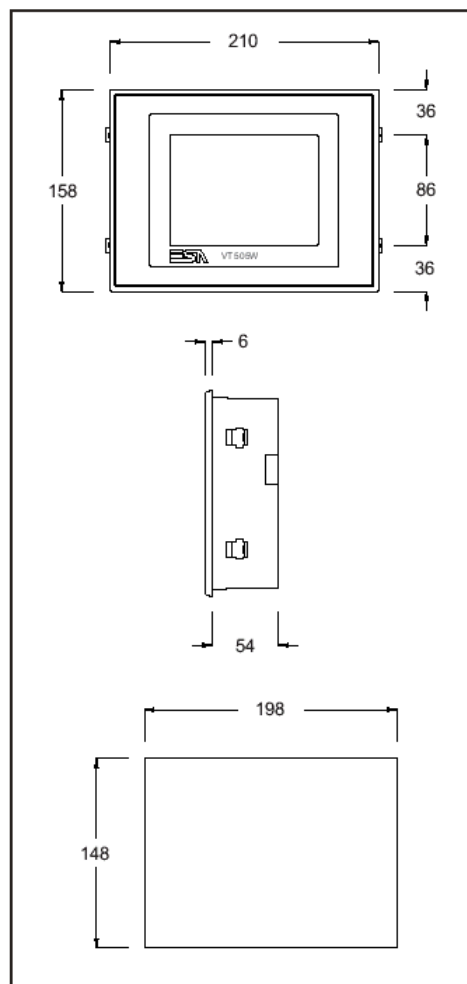
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Technical Data

Display	
Type	Graphic LCD, 4 blue tones, STN
Touch-screen	20 x 16 matrix
Background illumination	CCFL
Service life	15,000 hours
Resolution	320 x 240 (5.6") pixels
Lines x characters	16 x 40
Visible area	115.2 x 86.4 mm
Character size in text mode	8 x 15 pixels
Character size	2.8 x 5.2 mm
Contrast adjustment	Software
Fonts	Programmable
User Memory	
Project (bytes)	512 k
Data memory (bytes)	16 k
Interfaces	
	Serial interface, 25-pin sub-miniature socket connector
Clock	
	Software clock
Networks	
Integrated	Profibus DP, CAN
Optional	Interbus S
ESA Net	Net Client
Technical Data	
Power supply	24 V DC (18 to 32 V DC)
Power consumption at 24 V DC	10 W
Protection	IP 65
Operating temperature	0 to +50° C
Storage / transport temperature	-20 to +60° C
Relative humidity	< 85%, no condensation
Weight	1.4 kg
Quality certificate	CE
Features	
Multilingual texts	4
Password levels	10
Password	8-bit
Pages	64
Features	24
Variables format	DEC, HEX, BIN, BCD, ASCII, floating decimal point
Dynamic texts	Depends upon size of project memory
ISA alarms	-
Information messages	256
Help messages	64 / 256 / - (pages / information messages / alarms)
Alarm buffer	-
Recipes	128 / 256 (number / variables per recipe)
Buttons	24

Mechanical Design

Dimensions	
Outside dimensions (WxHxD)	210 x 158 x 60 mm
Panel cutout (WxH)	198 x 148 mm



Order Information

Designation	Article Number
VT505W control terminal	VT505W
Interface cable, 1.5 m / RS 485 – 25-pin MSP	VT505W-R6000-0
Interface cable > 1.5 m	VT505W-R6000-9
VTWINKIT programming set with manuals, data cable (PC to terminal) and VTWIN on CD, German only, for Windows 95, 98, NT and 2000	VTWINKIT

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