

Display	VT50	VT60	VT150W	VT160W	VT170W	VT190W
Type	Text LCD					
Backlighting	LED					
Columns by Rows [text]	20x2		20x4			40x4
Display area size (inches h-v)	2.89x0.45		2.77x0.81			5.53x0.91
Text character Matrix (pixels h-v)	5x7					
Character dimensions (inches h-v)	0.13x0.22		0.12x0.19			0.11x0.19
Contrast adjustment	Trimmer					
Character set	Ascii, Katakana					

User memory						
Project (bytes)		256K			320K	256K
Recipes/Alarm buffer (bytes) <sup>1</sup>		-			32K/8K RAM	105K/8K RAM

Interfaces						
MSP serial port	RS232/422/485/TTY 20 mA					
ASP serial port		-			RS232 (9 pin)	
LPT parallel port			-			Centronics
Connection with optional keyboard		-	Yes	Integrated		-

Networks						
Integrated (option)		CAN	CAN, DP	Profibus-DP		-
Optional <sup>2</sup>		Profibus-DP, Interbus-S, CAN				
ESA-Net		Client			Server <sup>3</sup> (128 variables), Client	

Dimensions						
External (W x H x D) (inches)		6.53x3.38x1.61	5.82x7.40x1.61	11.65x7.40x1.65	4.96x7.71x2.36	9.92x7.71x2.36
Cut-out (W x H) (inches)		6.18x3.03	4.84x2.95	See installation sheet	4.21x7.00	9.13x7.00

Technical data						
Power supply/Power consumed (24 Vdc)		18...32 Vdc/5 W	18...32 Vdc/15 W		18...32 Vdc/9 W	
Protection level		IP 65 (front)				
Operating temperature (°F)		+32...+122				
Storage/transport temperature (°F)		-4...+140				
Humidity (non-condensing)		<85%				
Weight (lbs)		1.1	1.5	1.9	2	3.3
Certificates of approval		CE, RINA, cULus		CE, cULus		

Main features						
Project Languages		4	6		8	
Password levels/Bit passwords		-/8	10/8			
Pages/Fields per page		127/12	1024/32		1024/16	1024/32
Format of variables		DEC, HEX, BIN, BCD, ASCII, Floating point				
Dynamic texts/Lists of images		Value depends on dimensions of project memory/-				
ISA alarms/Info-messages		-/128	-/1024		1024/1024	
Help messages (pages/info messages/alarms)		127/128/-	1024/1024/-		1024/1024/1024	
Alarm history buffer			-		256	
Recipes (Number/Variables per recipe)			-		1024/256	
Pipelines (Number/Total bytes)			-			64/512
Macros (Number/Commands per macro)		-	1024/16			
Print pages (Total/Number of fields per page)			-		1024/64	1024/128
Automatic operations		20	32		-	
Timers (Time base 100 ms)		20	32		-	
Equations		32		-		

Keyboard						
Operative/function/alphanumeric keys		8/5/-	4/6/-	9/5/11	9/23/11	13/12/11 14/24/11

① - With battery

② - Obtainable using VTPROFI/DP, VTINTERBUS and VTCAN or with VT5PROFI/DP and VT5INTERBUS

③ - Obtainable using VT5ESABUS

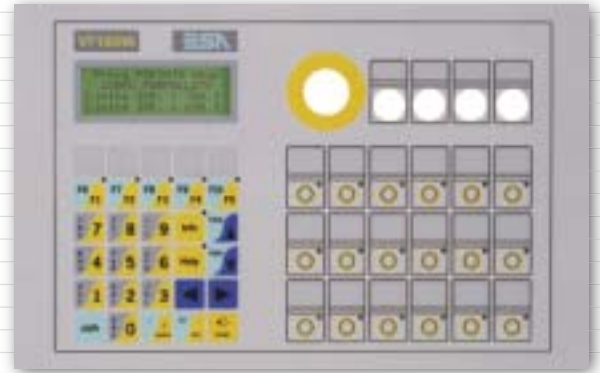
# Text Terminals



VT50  
LCD 20 x 2  
8 keys



VT150W  
LCD 20 x 4  
25 keys



VT160W  
LCD 20 x 4  
43 keys



VT60  
LCD 20 x 4  
6 keys



VT170W  
LCD 20 x 4  
36 keys



VT190W  
LCD 40 x 4  
49 keys

ESA Text Terminals are designed for applications that require an interface that is easy to use and program. All of the function keys, including the 18 supplementary keys of the VT160W, can be used to give direct commands like Start and Stop to the machine.

Main characteristics (model dependant):

- Alarms, passwords, recipes
- Mathematical functions
- Two drivers run simultaneously
- Serial or parallel printing
- Integrated Profibus-DP and CAN

## Text terminals codes and descriptions

VT050 00000	Interfaces: MSP - Project: 256 KB
VT050 000CN	Interfaces: ASP8, CAN network - Project: 256 KB
VT060 00000	Interfaces: MSP - Project: 256 KB
VT060 000CN	Interfaces: ASP8, CAN network - Project: 256 KB
VT150W 00000 <sup>1</sup>	Interfaces: MSP - Project: 256 KB
VT150W 000DP	Interfaces: MSP, Profibus-DP network - Project: 256 KB
VT150W A00CN <sup>1</sup>	Interfaces: ASP8, CAN network - Project: 256 KB
VT160W 00000	Interfaces: MSP - Project: 256 KB
VT160W 000DP	Interfaces: MSP, Profibus-DP network - Project: 256 KB
VT170W 00000	Interfaces: MSP, ASP (9 pin) - Project: 320 KB - Recipes: 32 KB
VT190W A0000	Interfaces: MSP, ASP (9 pin) - Project: 256 KB - Recipes: 105 KB
VT190W APO00	Interfaces: MSP, ASP (9 pin), LPT - Project: 256 KB - Recipes: 105 KB

<sup>1</sup> - Models without ESA Logo are available

## Accessories codes and descriptions

VT100 MT1000	Serial keyboard unit, 20 customizable keys with LEDs (VT150W)
VT100 MT2000	Blank keyboard unit (VT150W)
VT5 BATTERY	3.6V lithium battery for maintaining recipes and clock (VT170W/VT190W)
VT5 PROFI/DP	Unit for connecting in Profibus-DP (VT170W/VT190W)
VT5 ESABUS	RS485 unit for connecting to ESA-Net network (VT170W/VT190W)