



## Text HMI

### Evergreen solutions for durable control

Where a simple text based operator instructions and hardkey input is favoured, ESA Automation has the answer: Text HMI offers cost effective but powerful user/machine interaction with surprising clarity.

These are some features available on text HMIs:

- Applications quickly executed
- Alarms, passwords, recipes
- Mathematical functions
- Two drivers run simultaneously
- Serial or parallel printing
- Integrated Profibus-DP and CAN
- Keyboard input/selection
- Powered by Polymath



**VT50**  
HMI with text LCD display, 2 rows by 20 characters, 256 KB project, 8 operative keys (5 function keys). Available also with CAN interface.



**VT150**  
HMI with text LCD display, 4 rows by 20 characters, 256 KB project, 25 operative keys (5+5 customizable function keys). Available with Profibus-DP network or with CAN interface.



**VT170**  
HMI with text LCD display, 4 rows by 20 characters, 320 KB project, clock, 32 KB recipes, 36 operative keys (12 customizable function keys).

**VT60**  
HMI with text LCD display, 4 rows by 20 characters, 256 KB project, 6 operative keys (4 function keys). Available also with CAN interface.

**VT160**  
HMI with text LCD display, 4 rows by 20 characters, 256 KB project, 25 operative keys (5+5 customizable function keys), 18 customizable auxiliary keys. Available with Profibus-DP network.

Features	VT050	VT060	VT150	VT160	VT170
Display Type	Text LCD				
Display Backlight	LED				
Columns by Rows (text)	20 x 2		20 x 4		
Display area size (mm h-v)	73,5 x 11,5		70,4 x 20,8		
Text character Matrix (pixels h-v)	5 x 7				
Character dimensions (mm h-v)	3,2 x 5,5		2,95 x 4,75		
Contrast adjustment	Trimmer				
Character set	Ascii, Katakana				
Project Memory (bytes)	256K			320K	
Recipes/Alarm buffer (bytes)	-			32K/8K RAM	
MSP serial port	RS-232/422/485/TTY 20 mA				
ASP serial port	-			RS-232 (9 pin)	
Connection with optional keyboard	-		Yes	Integrated	-
Integrated network (optional)	CAN		CAN, Profibus-DP	Profibus-DP	-
Optional	Profibus-DP, Interbus-S, CAN				
ESA-Net (variables)	Client			Server (128), Client	
Power supply (Vdc)	18 - 32				
Consumption (W)	5		15		9
Operating temperature (°C)	0 ... +50 (non condensing)				
Storage temperature (°C)	-20 ... +60 (non condensing)				
Humidity	<85% (non condensing)				
External dimensions (W/H/D) (mm)	166 x 86 x 41	166 x 86 x 41	148 x 188 x 41	296 x 188 x 42	126 x 196 x 60
Cut-out dimensions (W/H) (mm)	157x77	157x77	123 x175	See installation sheet	107 x 178
Weight (kg)	0,5	0,5	0,7	0,88	0,9
Protection degree (front)	IP 66		IP 65		
Project Languages	4		6		8
Password levels/Bit passwords	-/8		10/8		
Pages/Fields per page	127/12		1024/32		1024/16
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	
Macros (Number/Commands per macro)	-			1024/16	
Print pages (Total/Number of fields per page)	-			1024/64	
Automatic operations/Timers	20/20		32/32		
Equations	32				
Keyboard Operative/function/alphanumeric keys	8/5/-	6/4/-	9/5/11	9/23/11	13/12/11
Certifications	CE, cULus				