Magelis display units with 2 line alphanumeric screen

Characteristics

References:

page 9 Dimensions, mounting : page 30

Type of display unit	XBT-H0●2●10 (fluorescent)	XBT-H811050 (LCD)	XBT-H0●1010 (back-lit LCD)

Environment

Conforming to standards	IEC 1131-2, IEC 68-2-6, IEC 68-2-27, EN 61131-2, UL 508, CSA C22-2 no. 14
Product certifications	C€, UL, CSA
Temperature Operation	0+ 50 °C
Storage	- 40+ 70 °C - 20+ 60 °C
Degree of protection	IP 65, conforming to IEC 529, Nema 4

Mechanical characteristics

Mounting and fixing Flush-mounted, fixed with 4 or 6 screws (supplied) pressure-mounted (on a 1 to 6 mm thick)					k panel)			
Material	Enclosure Keypad	Polyphenyl oxide, 10 % glass fibre (PPO GFN1 SE1) Anti-UV treated toughened polyester (Autoflex EB AG)						
	ХВТ-Н	002010		012•10	811050	001010	021010	011010
Keys		No key	4 function keys + 1 service key	5 service keys	5 service keys	No key	4 function keys + 1 service key	5 service keys

Electrical characteristics

Display unit		Fluorescent green matrix characters (5 x 7 pixels) - 2 lines of 20 characters, height 5 mm	LCD (5 x 7 pixels) - 2 lines of 20 characters, height 9 mm	Back-lit LCD (5 x 7 pixels) - 2 lines of 20 characters, height 9 mm	
Power supply Voltage		24 V not isolated	24 V not isolated (during configuration) 5 V via TSX Nano/Micro/Premium PLC terminal port (during operation)	24 V not isolated	
	Voltage limits	1830 V			
	Ripple	5 % maximum			
Consumption		10 W	1.5 W	10 W	

ХВТ-Н	002010	022010	012•10	811050	001010	021010	011010
Signalling	1 LED	6 LEDs	4 LEDs	-	1 LED	6 LEDs	4 LEDs
Memory - 128 Kb Flash EPROM, 256 Kb (XBT-H012110) - 200 application pages approximately (2 lines per page) - 256 available alarm pages (2 lines per page)		- 128 Kb Flash EPROM - 100 application pages approximately (2 lines per page) - 128 available alarm pages (2 lines per page)	- 128 Kb Flash EPROM, 256 Kb (XBT-H011010) - 200 application pages approximat (2 lines per page) - 256 available alarm pages (2 lines per page)		approximately		
Log function		of storing ala T-H012110)	rm	-	_		
Transmission (asynchronous serial link)	RS 232 C/RS 485/RS 422		22	RS 232 C/RS 485	RS 232 C/RS 485/RS 422		22
Downloadable protocol	Multiple (see pages	6 and 28)		Uni-Telway (see pages 6 and 28)	Multiple (see pages 6 and 28)		
Real-time clock	Access to t	he PLC real-	time clock				
Printer port (asynchronous serial link) RS 232 C (XBT-H012110)		-	-				
Connection Power supply	Plug-in terminal block 3 screw terminals (5.08 mm pitch) Max. clamping capacity: 1.5 mm²						
Serial port	Female 25-	way SUB-D	connector				
Printer port	Male 9-way	/ SUB-D conr	nector	-	-		

Magelis display units with 2 line alphanumeric screen

References

Characteristics : page 8 Dimensions, mounting : page 30

pro	
<u>No</u>	NAC.T

XBT-H02●010



XBT-H01●●10



XBT-H00●010

Downloadable		ber of key		Supply	Language	Reference	Weigh
exchange protocol	Func	t. Service	e Num.	voltage V 	version		ko
No printer port,	no log						
See page 28	-	-	_	24	Multilingual	XBT-H002010	0.600
	4	1	-	24	Multilingual	XBT-H022010	0.600
	_	5	-	24	Multilingual	XBT-H012010	0.600
With printer por	t, with lo	og					
See page 28	-	5	_	24	Multilingual	XBT-H012110	0.600
Display unit	with 2	lines	of 20 cl	haracters ((LCD)		
No printer port,	no log						
Uni-Telway See	-	- 5 -	_	24 and 5 via terminal	Multilingual I	XBT-H811050	0.600
page 28				socket on the			
			TSX Nano/ Micro/				
				Premium Pl	LC		
Display units	s with	2 lines	of 20	characters	(back-lit L	.CD)	
No printer port,	no log						
See page 28	-	-	-	24	Multilingual	XBT-H001010	0.600
	4	1	_	24	Multilingual	XBT-H021010	0.600
	_	5	-	24	Multilingual	XBT-H011010	0.600
Separate pa	ırts						
Description		Use				Reference	Weigh kç
for		for dov		3.1 or 95, the application	1	See page 27	-
Connecting cables		Conne	ction to P	LCs, minals, etc.		See page 29	-
Documentat	ion						
Description		Forma	t	Included in the product		Reference (1)	Weigh kg
Magelis		A5 bou	und	XBT-L1003		XBT-X000●●	0.200
user's manual				and XBT-L1	1004●		

(1) Add the following suffixes EN: English, FR: French, DE: German, ES: Spanish, IT: Italian.

Magelis display units with 2 line alphanumeric screen

Characteristics

References:

page 11 Dimensions, mounting : page 30

Type of terminal	XBT-P0●2●10 (fluorescent	XBT-P0●1●10 (back-lit LCD	

Environment

Conforming to	standards	IEC 1131-2, IEC 68-2-6, IEC 68-2-27, EN 61131-2, UL 508, CSA C22-2 no. 14		
Product certifications C6, UL, CSA				
Temperature	Operation	0+ 50 °C		
	Storage	- 40+ 70 °C	- 20+ 60 °C	
Degree of protection		IP 65, conforming to IEC 529, Nema 4		

Mechanical characteristics

Mounting and	d fixing	Flush-mounted, fixed with 4 or 6 screws (supplied) pressure-mounted (on a 1 to 6 mm thick panel)				
Material	Enclosure Keypad	Polyphenyl oxyde, 10% glass fibre (PPO GFN1 SE1) Anti-UV treated toughened polyester (Autoflex EB AG)				
Keys	поураа	XBT-P012010 8 function keys	XBT-P022e10 12 function keys + 10 service keys	XBT-P011010 8 function keys + 9 service keys	XBT-P021●10 12 function keys + 10 service keys	
			+ 12 numeric keys		+ 12 numeric keys	

Electrical characteristics

Display unit		Fluorescent green matrix characters (5 x 7 pixels), 2 lines of 20 characters, height 5 mm	Back-lit LCD (5 x 7 pixels), 2 lines of 20 characters, height 9 mm
Power supply	Voltage Voltage limits	24 V not isolated	
	Ripple	5 % maximum	
Consumption		10 W	

		XBT-P012010	XBT-P022●10	XBT-P011010	XBT-P021●10			
Signalling		17 LEDs	21 LEDs	17 LEDs	21 LEDs			
Memory		- 400 application pages	- 256 Kb Flash EPROM - 400 application pages approximately (2 lines per page) - 256 available alarm pages (2 lines per page)					
Log function		Possibility of storing ala (XBT-P022110)	rm pages	Possibility of storing al (XBT-P021110)	arm pages			
Transmission (asynchronous s	erial link)	RS 232 C/RS 485/RS 422						
Downloadable ¡	protocol	Multiple (see pages 6 a	Multiple (see pages 6 and 28)					
Real-time clock	(Access to the PLC real-	Access to the PLC real-time clock					
Printer port (asynchronous s	erial link)	RS 232 C (XBT-P0221 1	RS 232 C (XBT-P022110) RS 232 C (XBT-P021110)					
Connection	Power supply		Plug-in terminal block 3 screw terminals (5.08 mm pitch) Max. clamping capacity : 1.5 mm²					
	Serial port	Female 25-way SUB-D	Female 25-way SUB-D connector					
Printer port Male 9-way SUB-D connector								

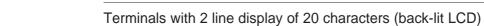
Magelis display units with 2 line alphanumeric screen

References

Characteristics : page 10 Dimensions, mounting : page 30

Terminals with 2 line display of 20 characters (fluorescent)

Downloadable	Numbe	er of keys		Supply	Language	Reference	Weight
exchange protocol	Funct.	Service	Num.	voltage V <u></u>	version		kg
No printer port, r	no log						
See page 28	8	9	-	24	Multilingual	XBT-P012010	0.800
	12	10	12	24	Multilingual	XBT-P022010	0.800
With printer port	and log						
See page 28	12	10	12	24	Multilingual	XBT-P022110	0.800



No printer port, no	olog						
See page 28	8	9	_	24	Multilingual	XBT-P011010	
	12	10	12	24	Multilingual	XBT-P021010	0.800
With printer port a	and log						
See page 28	12	10	12	24	Multilingual	XBT-P021110	0.800
Separate par	ts						
Description		Use				Reference	Weight kg
Development softw	vare	for do		s 3.1 or 95, g the applic		See page 27	_
Connecting cables			Connection to PLCs, configuration terminals, etc.			See page 29	_
Documentation	on						
Description		Forma	at	Include the pro		Reference (1)	Weight kg
Magelis user's manual		A5 bo	und	XBT-L and XI	1003● BT-L1004●	XBT-X000●●	0.200



XBT-P01●010



XBT-P02●●10

Magelis terminals with 2 or 4 line alphanumeric screen

Characteristics

References:

page 13 Dimensions, mounting : page 30

Type of terminal	XBT-E014●10/XBT-E016●10 (fluorescent)	XBT-E013●10/XBT-E015●10 (back-lit LCD)
Environment		

Conforming to standards	IEC 1131-2, IEC 68-2-6, IEC 68-2-27, EN 61131-2, UL 5	i08, CSA C22-2 no. 14			
Product certifications	C€, UL, CSA				
Temperature Operation	0+ 50 °C				
Storage	- 40+ 70 °C	- 20+ 60 °C			
Degree of protection	IP 65, conforming to IEC 529, Nema 4				

Mechanical characteristics

Mounting an	d fixing	Flush-mounted, fixed with 4 or 6 screws (supplied) pressure-mounted (on a 1 to 6 mm thick panel)
Material	Enclosure	Polyphenyl oxyde, 10% glass fibre (PPO GFN1 SE1)
	Keypad	Anti-UV treated toughened polyester (Autoflex EB AG)
Keys	Function Service Alphanumeric	24 10 12

Electrical characteristics

Display unit		Fluorescent green matrix c	haracters (5 x 7 pixels)	Back-lit LCD (5 x 7 pixels)	
		XBT-E014●10	XBT-E016●10	XBT-E013●10	XBT-E015●10
		2 lines of 40 characters,	4 lines of 40 characters,	2 lines of 40 characters,	4 lines of 40 characters,
		height 5 mm	height 5 mm	height 5 mm	height 5 mm
Power supply	Voltage	== 24 V not isolated			
	Voltage limits	1830 V			
	Ripple	5 % maximum			
Consumption		20 W		10 W	

O: III		20150 41					
Signalling		33 LEDs + 1 buzzer					
Memory		- 384 Kb Flash EPROM - 800 application pages approximately (2 lines per page) - 256 available alarm pages (2 lines per page) - 400 application pages approximately (4 lines per page) - 128 available alarm pages (4 lines per page)					
Log function		Possibility of storing alarm pages					
Transmission (asynchronous serial link)		RS 232 C/RS 485/RS 422					
Downloadable	protocol	Multiple (see pages 6 and 28)					
Real-time cloc	k	Incorporated					
Printer port (asynchronous serial link)		RS 232 C (XBT-E014110/XBT-E016110)	RS 232 C (XBT-E013110/XBT-E015110)				
Alarm relay		1 N/O contact (min 1 mA/ 5 V, max 0.5 A/ 24 V)					
Connection	Power supply and alarm relay	Plug-in terminal block 5 screw terminals (5.08 mm pitch) Max. clamping capacity : 1.5 mm²					
	Serial port	Female 25-way SUB-D connector					
	Printer port	Male 9-way SUB-D connector					

Magelis terminals with 2 or 4 line alphanumeric screen

References

Documentation

Format

A5 bound

Description

Magelis user's manual

Characteristics : page 12 Dimensions, mounting : page 30



XBT-E014●10



XBT-E016●10



XBT-E013●10



XBT-E015●10

exchange		er of key . Service	s Alphanum.	Supply	Language version	Reference	Weight
protocol				V			kg
No printer port, no	olog						
See page 28	24	10	12	24	Multilingual	XBT-E014010	1.000
With printer port a	and log						
See page 28	24	10	12	24	Multilingual	XBT-E014110	1.000
Terminals wit	h 4 lin	e displ	ay of 40 c	haracte	ers (fluores	scent)	
No printer port, no	o log						
See page 28	24	10	12	24	Multilingual	XBT-E016010	1.000
With printer port a	and log						
See page 28	24	10	12	24	Multilingual	XBT-E016110	1.000
Terminals wit	h 2 lin	e displ	ay of 40 c	haracte	ers (back-l	it LCD)	
No printer port, no	o log						
		10	12	24	Multilingual	XBT-E013010	1.000
See page 28	24	10					
		10					
page 28		10	12	24	Multilingual	XBT-E013110	1.000
page 28 With printer port a	and log	10	12				
page 28 With printer port a See page 28	24 :h 4 lin	10	12				
page 28 With printer port a See page 28 Terminals wit	24 :h 4 lin	10	12				
page 28 With printer port a See page 28 Terminals wit No printer port, no	24 ch 4 lin co log	10 e displ	¹² ay of 40 c	haracte	ers (back-l	it LCD)	1.000
page 28 With printer port a See page 28 Terminals wit No printer port, no See page 28	24 ch 4 lin co log	10 e displ	¹² ay of 40 c	haracte	ers (back-l	it LCD)	1.000
page 28 With printer port a See page 28 Terminals wit No printer port, no See page 28 With printer port a	24 ch 4 lin co log 24 and log 24 24	10 e displ	12 ay of 40 c	haracte	ers (back-l	it LCD) XBT-E015010	1.000
page 28 With printer port a See page 28 Terminals with No printer port, no See page 28 With printer port a See page 28	24 ch 4 lin co log 24 and log 24 24	10 e displ	12 ay of 40 c	haracte	ers (back-l	it LCD) XBT-E015010	1.000
page 28 With printer port and see page 28 Terminals with printer port, not see page 28 With printer port and see page 28	24 ch 4 lin co log 24 and log 24 and log 24	10 e displ 10 10 Use Under	12 ay of 40 c 12 12 Windows 3.1 c valued ing the a	24 24 27 29	ers (back-l	XBT-E015010 XBT-E015110	1.000 1.000 1.000 Weight

Included in

the product

XBT-L1003●

(1) Add the following suffixes **EN**: English, **FR**: French, **DE**: German, **ES**: Spanish, **IT**: Italian.

and XBT-L1004

Reference

XBT-X000●●

(1)

Weight

0.200

kg

Magelis display units with 8 line matrix screen

Characteristics

References:

page 15 Dimensions, mounting : page 30

Type of display unit	XBT-HM0●7●10 (back-lit LCD)

Environment

Conforming to standards		IEC 1131-2, IEC 68-2-6, IEC 68-2-27, EN 61131-2, UL 508, CSA C22-2 no. 14
Product certific	cations	C€, UL, CSA
Temperature	Operation	0+ 45 °C
	Storage	- 20+ 60 °C
Degree of prote	ection	IP 65, conforming to IEC 529, Nema 4

Mechanical characteristics

Mounting and fixing		Flush-mounted, fixed with spring clips (supplied) pressure-mounted (on a 1 to 6 mm thick panel)				
Material	Enclosure	Polyphenyl oxide, 10 % glass fibre (PPO GFN1 SE1)				
	Keypad	Anti-UV treated toughened polyester	Anti-UV treated toughened polyester (Autoflex EB AG)			
		XBT-HM007010	XBT-HM027010	XBT-HM017●10		
Keys		No keys	4 function keys + 1 service key	5 service keys		

Electrical characteristics

Display unit		Back-lit LCD (240 x 64 pixels) - 8 lines of 40 characters (height 5.3 mm) single size, - 4 lines of 20 characters (height 10.6 mm) double height, double width
Power supply	Voltage	24 V not isolated
	Voltage limits	1830 V
	Ripple	5 % maximum
Consumption		15 W

		XBT-HM007010	XBT-HM027010	XBT-HM017●10			
Signalling		1 LED	6 LEDs	4 LEDs			
Memory			- 384 Kb Flash EPROM - 600 application pages approximately (8 lines per page) - 256 available alarm pages (2 lines per page)				
Transmission (asynchronous s	erial link)	RS 232 C/RS 485/RS 422	RS 232 C/RS 485/RS 422				
Downloadable protocol		Multiple (see pages 6 and 28)	Multiple (see pages 6 and 28)				
Real-time clock		Access to the PLC real-time clock					
Printer port (asynchronous s	erial link)	RS 232 C (XBT-HM017110)					
Connection	Power supply	Plug-in terminal block 3 screw terminals (5.08 mm pitch) Max clamping capacity : 1.5 mm²					
	Serial port	Female 25-way SUB-D connector	Female 25-way SUB-D connector				
Printer port		Male 9-way SUB-D connector					

Magelis display units with 8 line matrix screen

References

Characteristics : page 14 Dimensions, mounting : page 30

XBT-HM007010

XBT-HM027010

XBT-HM017●10

Downloadable exchange protocol	Num Fund	ber of key ct. Service	e Num.	Supply voltage V ===	Language version	Reference	Weigh kç
No printer port, no	log						
See page 28	-	-	-	24	Multilingual	XBT-HM007010	0.600
	4	1	_	24	Multilingual	XBT-HM027010	0.600
	_	5	_	24	Multilingual	XBT-HM017010	0.600
With printer port, See page 28	with log –	5	_	24	Multilingual	XBT-HM017110	0.600
Separate par	ts						
Description		Use	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	05 NT 4 -		Reference	Weigh kç
Development softw	vare	for dov		95 or NT 4.€ the applicati		See page 27	-
Connecting cables			ction to PL uration terr			See page 29	-
Documentation	n						
Description		Forma	t	Included the produ		Reference (1)	Weigh kg
Magelis user's manual		A5 bot	ınd	XBT-L10 and XBT	03•	XBT-X000●●	0.200

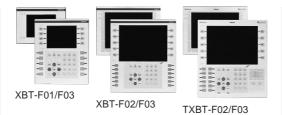
(1) Add the following suffixes **EN** :English, **FR** : French, **DE** : German, **ES** : Spanish, **IT** : Italian.

Magelis terminals with graphic screen

Characteristics: pages 20 and 22 References: pages 21 and 23 Dimensions: page 31

General

Presentation



Graphic screen operator dialogue terminals are available with 5" or 10" screens, in monochrome or colour, with a keypad or a touch-sensitive screen.

XBT-F graphic screen terminals are specially designed for operator dialogue graphic functions.

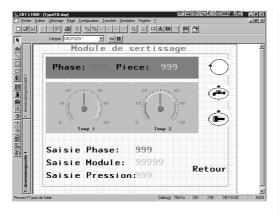
TXBT-F graphic stations operate under Windows 95, enabling them to access other control system functions.

Operation



All Magelis graphic screen terminals have the same user interface: static and soft function keys, service keys, alphanumeric keys.

Configuration



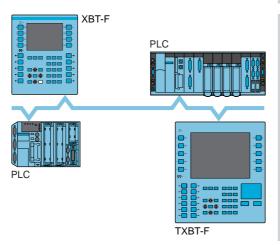
Magelis graphic screen terminals can be configured using the same XBT-L100● software in a Windows environment.

XBT-L100• software provides graphic screen terminals with a library of animated graphic objects such as bargraphs, volume indicator meters, selectors, potentiometers and trending curves.

The variable for animating an object can be selected directly from a list of symbols given by the PL7 or Concept software.

The application program for the graphic terminals is stored on a PCMCIA memory card.

Communication



XBT-F and TXBT-F graphic screen terminals communicate with PLCs via an integrated point-to-point or multidrop serial link, or via a fieldbus with a PCMCIA type III card.

The communication protocols are those used by Schneider Group PLCs as well as those of the other main market suppliers.

Magelis terminals with graphic screen

Characteristics: page 20
References: page 21
Dimensions: page 31

Functions

Functions

XBT-F and TXBT-F graphic screen operator dialogue terminals have the following functions:

- Display of animated synoptic screens, control, modification of numeric and alphanumeric variables
- Display of a service line (status and alarm bar) with the current time
- Dynamic visualisation of operating data (setpoints, measurements, recipes, maintenance messages) and process errors
- · Control via soft or static function keys
- Scaling of analogue variables
- Real-time and trending curves
- Alarm log and management of alarm groups
- Management of help pages, form pages, recipe pages
- Pages can be called by the user or by the PLC
- Three levels of password
- Printing of form pages, date-stamped log and alarms
- Communication protocol application support in the PCMCIA type II application memory card

The role of the function keys is defined using the XBT-L100● software. Modifications cannot be made during operation. Each function key can be associated with an internal bit of the PLC application.

Static function keys

Static function keys are defined for the whole application.

They can be used for:

- Access to a page
- Pulse a PLC memory bit
- Latch a PLC memory bit

Static keys can be marked with re-usable labels.

Soft function keys

Soft function keys are associated with a page. Their role can differ from one page to another.

They can perform the following functions:

- Access to a page
- Pulse a PLC memory bit
- Latch a PLC memory bit
- · Access to the modification of a value

Each soft key can be assigned a label or icon displaying its function.

Service keys

Service keys are the "arrow" keys and the control keys and are used for modifying the parameters of the control system. The control keys are used to perform the following actions:

ENTER Confirm a selection or entry, acknowledge an alarm MOD Change to the mode for entering pages, passwords.

Change to the mode for entering pages, passwords, fields or graphic objects

ESC Cancel an entry, suspend or stop a current action. Display previous pages in succession. Quit the alarm

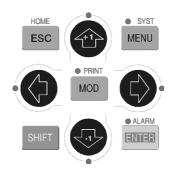
display.

SHIFT Access the second of the dual key functions

MENUAccess a menu containing the operating functions which do not have direct access keysHOMEReturn to the entry point of the current menu. Example : return to the first page of the application.SYSTAccess confidential mode which contains the implementation functions protected by a password

ALARM View the alarms

PRINT Print



The "arrow" keys can be used to :

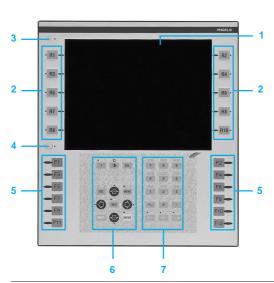
- Change page within a menu
- Change fields on a page
- Select an object on a page
- Move around on a pageSelect the value of a digit
- Select a value from a list of choices
- When used with the SHIFT key, increment or decrement the value of a variable field

Magelis terminals with graphic screen

Characteristics: page 20 References: page 21 Dimensions: page 31

Description

Front panel of XBT-F01/F02 keypad terminals



XBT-F01/F02 keypad terminals comprise on the front panel:

- 1 A monochrome or colour screen (5.7" or 9.5" or 10.4" depending on the model)
- 2 2 x 4 or 2 x 5 (depending on the model) soft function keys with indicator lights
- 3 A communication monitoring indicator light
- 4 A keypad activity indicator light
- 5 2 x 5 or 2 x 6 (depending on the model) static function keys with indicator lights and re-usable labels
- 6 Twelve service keys with indicator lights
- 7 Twelve alphanumeric keys (0...9, +/-, .) associated with 3 alphabetical access keys (A...Z).

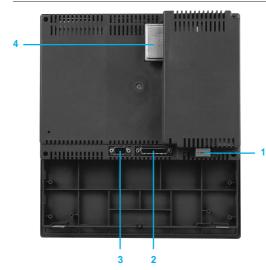
Front panel of XBT-F03 touch-sensitive screen terminals



 $\mathsf{XBT}\text{-}\mathsf{F03}$ touch-sensitive screen terminals comprise on the front panel :

- 1 A touch-sensitive colour screen (5.7" or 10.4" depending on the model)
- 2 A communication monitoring indicator light
- 3 A tactile feedback activity indicator light

Back panel of XBT-F graphic screen terminals



XBT-F graphic screen terminals comprise on the back panel:

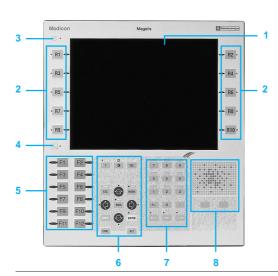
- 1 A plug-in screw terminal for == 24 V power supply, and alarm relay connection
- 2 A female 25-way SUB-D connector for connection to PLCs
- 3 A male 9-way SUB-D connector for printer connection and for transferring applications from an FTX terminal or PC compatibles
- 4 Two slots for PCMCIA card:
- one type II for application memory
- one type III for connection to the communication architecture (bus or network)

Magelis graphic stations

Characteristics: page 22
References: page 23
Dimensions: page 31

Description

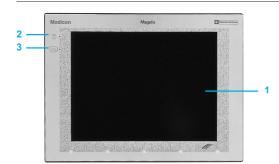
Front panel of TXBT-F02 graphic keypad stations



TXBT-F02 graphic keypad stations comprise on the front panel :

- 1 A monochrome or colour screen (9.5" or 10.4" depending on the model).
- 2 2 x 5 soft function keys with indicator lights
- 3 A communication monitoring indicator light
- 4 A keypad activity indicator light
- 5 Twelve static function keys with indicator lights and re-usable labels
- 6 Fourteen service keys with indicator lights
- 7 Twelve alphanumeric keys (0...9, +/-, .) associated with 3 alphabetical access keys (A...Z).
- 8 A touch-sensitive pointing device

Front panel of TXBT-F03 graphic screen terminals with touch-sensitive screens



TXBT-F03 graphic screen terminals with touch-sensitive screens comprise on the front panel :

- 1 A touch-sensitive colour screen (10.4").
- 2 A communication monitoring indicator light
- 3 A tactile feedback activity indicator light

Front panel of TXBT-F graphic stations



TXBT-F graphic stations comprise on the front panel:

- 1 A plug-in screw terminal for 24 V power supply, and alarm relay connection
- 2 A female 26-way SUB-D high-density connector for PLC connection, with a T CCX CB 10 cable (length 0.2 m) supplied, fitted with 1 male 26-way SUB-D high-density connector and 1 female 25-way SUB-D connector
- 3 A female 25-way SUB-D connector for parallel printer connection or external CD drive
- 4 Two slots for PCMCIA card :
 - one type II (1)
 - one type III
- 5 A male 9-way SUB-D 9 connector for connecting an FTX configuration terminal or a PC compatible
- 6 An 8-way mini-DIN socket for connecting a PS/2 compatible external keyboard
- 7 Two standard IBM PC slots (ISA bus), 2/3 format (depending on the model).

⁽¹⁾ The operator dialogue application memory can be supported by a PCMCIA type II card (10 Mb maximum) or by the internal hard disk (2.1 Gb).

Magelis terminals with graphic screen

Characteristics

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Type of terminal	XBT-F011	XBT-F032	XBT-F023/F024	XBT-F034

Environment

Conforming to	standards	IEC 1131-2, IEC 801-2 level 3, IEC 801-3 and IEC 801-4 level 3, IEC 68-2-6, IEC 68-2-27, UL 508, CSA
Product certific	cations	C€, UL, CSA
Temperature	Operation	0+ 45 °C
	Storage	- 20+ 60 °C
Relative humid	ity	085 % (no condensation)
Degree of prote	ection	
	Front panel	IP 65, conforming to IEC 529, Nema 4
	Rear panel	IP 20, conforming to IEC 529
Shock resistan	ce	Conforming to IEC 68-2-27; semi-sinusoidal pulse 11 ms, 15 gn in the 3 axes

Mechanical characteristics

Mounting and fixing		Flush-mounted, fixed with s	Flush-mounted, fixed with spring clips (supplied) pressure-mounted (on a 1 to 6 mm thick panel)				
		10 spring clips	8 spring clips	12 spring clips	10 spring clips		
Material	Front section	Polyphenyl oxide, 10 % gla	Polyphenyl oxide, 10 % glass fibre (PPO GFN1 SE 1)				
	Keypad	Anti-UV treated toughened	Anti-UV treated toughened polyester (Autoflex EB AG)				
	Enclosure	Polyphenyl oxide, 10 % gla	ss fibre (PPO GFN1 SE 1)				
Keys	Soft keys	8 (with LED)	_	10 (with LED)	_		
Static keys Service keys Alphanumeric		10 (with LED and	_	12 (with LED and	_		
		re-usable labels)		re-usable labels)			
		12	_	12	_		
		12 + 3	_	12 + 3	_		
	keys	for alphabetical access		for alphabetical access			

Electrical characteristics

LCD screen	Туре	5.7" monochrome, back-lit with 16 levels of grey	5.7" STN 256 colours, back-lit with resistive matrix tactile feedback	XBT-F023 : 9.5" monochrome, back-lit with 16 levels of grey XBT-F024 : 10.4" TFT 256 colours	10.4" TFT 256 colours with resistive analogue tactile feedback	
	Resolution	320 x 240 pixels		640 x 480 pixels		
Power supply	Voltage Limits Protection	=== 24 V not isolated 1830 V, maximum ripple 5 %, maximum microbreaks 1 ms Against polarity inversion and overloads				
Consumption		35 W				

Signalling		1 communication monitoring LED and 1 keypad activity (or tactile feedback activity) LED and 11 LEDs associated with service and alphanumeric keys			
Operating syst	tem	Magelis			
Dynamic RAM memory		2.5 Mb			
Application me	emory	On 2 Mb PCMCIA II card (supplied), 4, 8 or 10 Mb			
Dialogue appli	cation				
	Maximum	50 to 450 application, alarm, help, form and recipe	30 to 300 application, alarm, help, form and recipe		
	no. of pages	pages depending on the memory card used	pages depending on the memory card used		
	Curves	16 real-time curves	16 real-time curves		
Connections PLC/ configuration PC Printer		RS 232 C/RS 422/485 insulated serial link, downloadable communication protocols (see page 27 and page 28) RS 232 C serial link			
	Bus or network	Slot for PCMCIA type III communication card depending or	n the model, communication protocols (see page 26)		
Real-time cloc	k	Access to the PLC real-time clock			
Alarm relay		1 volt-free N/O contact, max 0.5 A/~ 24 V			
Connection	Power supply and alarm relay PLC Printer/ configuration PC Power supply and alarm relay PLC Printer/ PRINTER Plug-in terminal, 5 screw terminals (5.08 mm pitch) Max clamping capacity : 1.5 mm² Female 25-way SUB-D connector Male 9-way SUB-D connector				

Magelis terminals with graphic screen

References

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XBT-F024●10



XBT-F034●10

Downloadable exchange	Type and size of screen	Supply voltage	Type III slot for PCMCIA	Reference	Weight
protocol		V	communication card		kg
See page 27	Monochrome 5.7"	24	No	XBT-F011110	1.800
and page 28			Yes	XBT-F011310	1.800
	Monochrome 9.5"	24	No	XBT-F023110	2.700
			Yes	XBT-F023310	2.700
	Colour 10.4"	24	No	XBT-F024110	2.700
			Yes	XBT-F024310	2.700
Terminals v	vith touch-ser	nsitive scre	eens		
See page 27	Colour 5.7"	24	No	XBT-F032110	1.600
and page 28			Yes	XBT-F032310	1.600
	Colour 10.4"	24	No	XBT-F034110	2.400
			Yes	XBT-F034310	2.400
Separate pa	arts				
Description		Use		Reference	Weight kg
Development software			ows 95 or NT 4.•, ling the application s	See page 27	_
PCMCIA type II memory cards		Application memory		See page 28	_
PCMCIA type III communication cards		Bus and industrial networks connection		See page 28	_
Connecting cables		Serial link,		See page 29	
		Uni-Telway be configuration printer conne	terminal,		
Sheets of labels		Labels for function keys		See page 28	
D !					
Replaceme	nt parts				
Description		Use	Memory size	Reference	Weight kg
PCMCIA type II memory card		XBT-F terminals	2 Mb	XBT-MEM02	0.100



XBT-MEM02

memory card

0.100

Magelis graphic stations

Characteristics

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Type of graphic station	TXBT-F023	TXBT-F024	TXBT-F034

Environment

Conforming to	standards	IEC 1131-2, IEC 801-2 level 3, IEC 801-3 and IEC 801-4 level 3, IEC 68-2-6, IEC 68-2-27, UL 508, CSA
Product certific	cations	C€, UL, CSA
Temperature	Operation	0+ 45 °C
	Storage	- 20+ 60 °C
Relative humid	ity	085 % (without condensation)
Degree of prote	ection	
	Front panel	IP 65, conforming to IEC 529, Nema 4
	Rear panel	IP 20, conforming to IEC 529
Shock resistan	ce	Conforming to IEC 68-2-27; semi-sinusoidal pulse 11 ms, 15 gn in the 3 axes

Mechanical characteristics

Mounting and fixing		Flush-mounted, fixed with spring clips (supplied) pressure-mounted (on a 1 to 6 mm thick panel) 12 spring clips 10 spring clips		
Material	Front section	Polyphenyl oxide, 10 % glass fibre (PPO GFN1 SE 1)		
	Keypad	Anti-UV treated toughened polyester (Autoflex EB AG)		
	Rear enclosure	Zinc-coated steel		
Keys	Soft keys	10 (with LED)	_	
	Static keys	12 (with LED and re-usable labels)	_	
	Service keys	14	-	
Alphanumeric		12 + 3 for alphabetical access	_	
	keys			
Pointing dev	ce	Yes, tactile keypad	No	

Electrical characteristics

LCD screen	Туре	9.5" monochrome, back-lit with 16 levels of grey	10.4" TFT 256 colours, back-lit	10.4" TFT 256 colours, back-lit with resistive analogue feedback	
	Resolution	640 x 480 pixels			
Power supply	Voltage	== 24 V not isolated			
	Limits	1830 V, maximum ripple 5 %, maximum microbreaks 1 ms			
	Protection	Against polarity inversion and overloads			
	ISA bus extension	Maximum available at 12 V: 1.2 A, at 5 V: 2 A			
Consumption		80 W			

Signalling		1 communication monitoring LED and 1 keypad activity (or tactile feedback activity) LED and 11 LEDs associated with			
		service and alphanumeric keys			
Processor		80486 DX4, 100 MHz			
Internal hard d	isk	1.6 Gb			
Operating syst	em	Windows 95 installed on the hard disk			
Dynamic RAM	memory	16 Mb as standard and up to 32 Mb with extension			
Application me	emory	On hard disk or PCMCIA type II card 2, 4, 8 or 10 Mb			
Dialogue appli	cation				
	Maximum	Application, alarm, help, form and recipe pages limited by hard disk capacity			
	no. of pages	Maximum 1024 alarm pages			
	Curves	16 real-time curves, 16 trending curves			
	Adjustment	General screens with 4 front corrector panels, supervision and adjustment screens			
	OLE server	Interface with third-party software (Visual Basic, Excel, etc)			
Software extension					
	PL7 Pro Dyn	PLC diagnostic functions, dynamic display of programs, etc			
	Supervision	Web Client Monitor via Intranet/Ethernet TCP/IP			
Connections	PLC	RS 232 C/RS 422/485 isolated serial link, downloadable communication protocols (see page 27)			
	Configuration PC	Non isolated RS 232 C serial link			
	Printer	Parallel link			
	External keypad	PS/2 compatible link			
	Bus or network	Slot for type II or III PCMCIA communication card, communication protocols			
		(see Schneider Software Pack page 27)			
	ISA bus cards	Depending on the model, two 2/3 format slots (network, TSX Premium coprocessor connection, etc)			
Real-time clock	k	Incorporated and backed-up			
Alarm relay		1 volt-free N/O contact, max 0.5 A/\simes 24 V			
Connection	Power supply and	Plug-in terminal, 5 screw terminals (5.08 mm pitch)			
	alarm relay	Max clamping capacity : 1.5 mm ²			
	PLC	High-density female 26-way SUB-D connector and T CCX CB 10 cable with female 25-way SUB-D connector			
	0 " " 50	(PLC side)			
	Configuration PC	Male 9-way SUB-D connector			
	Printer	Female 25-way SUB-D connector			
	External keypad	8-way mini-DIN connector			

Magelis graphic stations

References

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| Stanform | Stanform

T XBT F024●10●



T XBT F034●10●

Graphic stations	with	kevpads
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Downloadable exchange protocol	Type and size of screen	Supply voltage V ===	Number of ISA bus slots	Reference (1)	Weight kg
See page 27	Monochrome 9.5"	24	_	T XBT F023310●	5.100
			2 (2/3 format)	T XBT F023410●	5.500
	Colour 10.4"	24	_	T XBT F024310●	5.100
			2 (2/3 format)	T XBT F024410●	5.500

Graphic stations with touch-sensitive screens

See page 27	Colour 10.4"	24	-	T XBT F034310●	4.800
			2 (2/3 format)	T XBT F034410●	5.200

Separate parts

Description	Use	Reference	Weight kg
Development software	Under Windows 95 or NT 4.●, for downloading the application and protocols	See page 27	<u> </u>
PCMCIA type II memory cards	Application memory	See page 28	-
PCMCIA type III communication cards	Bus and industrial networks connection	See page 28	_
Connecting cables	Serial link, Uni-Telway bus, configuration terminal, printer, etc connection	See page 29	-
Sheets of labels	Labels for function keys	See page 28	_

Documentation

Description	Format	Included in the product	Language	Reference	Weight kg
User's manual for TXBT	A5 bound	T XBT F0●●●10F	French	T XBT DM00F	0.500
graphic stations (2)		T XBT F0•••10E	English	T XBT DM00E	0.500

⁽¹⁾ The T CCX CB 10 cable (length 0.2 m, fitted with 2 x 25- and 26-way SUB-D connectors) is included as standard. Add the suffix **E** for an English version of Windows 95 and English documentation to be supplied with the product, and the letter **F** for a French version of Windows 95 and French documentation to be supplied with the product. (2) For documentation in German, Spanish and Italian, consult our Regional Sales Office.