





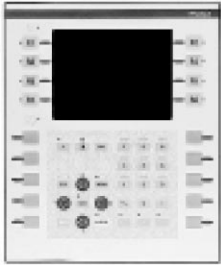



# MAGELiS™ XBT Operator Interface

## Characteristics - Environmental and Electrical

Square D, Groupe Schneider is pleased to provide you a complete line of rugged message display terminals. This family of display terminals is available to meet a host of needs by establishing dialog and simplifying data exchanges between the programmable controller and the operator. With features ranging from simple message readouts to user-programmable function keys, operators may adjust machine parameters through direct communications. Some of the key features offered as a part of the XBT line are listed below. XBTs have been designed with the industrial environment in mind.

Environment		
Conforming to standards	IEC 1131-2, EN 61131-2, UL 508, CSA C22-2 No. 14	
Product approvals	UL, CSA, CE  File E164866  File LR44087  Marked	
Temperature	Operation	32 to +122 °F (0 to +50 °C) XBT-F 32 to +113 °F (0 to 45 °C)
	Storage	-40 to +158 °F (-40 to +70 °C)
Degree of protection	IP 65, conforming to IEC 529 NEMA and UL Type 4, according to UL 508	
Mechanical characteristics		
Type of mounting and fixing	Flush-mounted with 4 or 6 pressure mounted bolts (supplied) (on panel 1 to 6 mm thick)	
Material	Enclosure	Polyphenylene oxide with 10% fiberglass (PPO GFN1 SE1)
	Keypad	Anti-UV coated (Autoflex EB AG) hardened polyester
Electrical characteristics		
Power supply	Voltage	24 Vdc
	Voltage limits	18-30 Vdc
	Ripple	25 % maximum
Consumption	10 W (XBT-F 3.5 W)	
Operating characteristics		
Log function	Possibility of storing application and/or alarm pages	
Transmission (asynchronous serial link)	RS 232C/RS 485/RS 422	
Protocols available	Groupe Schneider and major PLCs	

The XBTH/P/E range of message displays and terminal comprise 3 families of products:		The XBT-HM/F range of display units offer the following graphics capability:			
 <b>XBTH</b>	<ul style="list-style-type: none"> <li>• <b>XBTH display units</b></li> <li>- Fluorescent or back-lit LCD display</li> <li>- 2 lines of 20 characters</li> <li>- With or without function keys</li> <li>- 128/256 kb Flash EEPROM memory, 200 application pages (approx), 256 available alarm pages</li> <li>- Optional Printer/Log function.</li> </ul>	 <b>XBTHM</b>	<ul style="list-style-type: none"> <li>• <b>XBTHM display units</b></li> <li>- LCD display</li> <li>- 8 lines of 40 characters</li> <li>- With or without function keys</li> <li>- 384 kb Flash EEPROM memory, 600 application pages (approx), 256 available alarm pages</li> <li>- Graphics</li> </ul>		
	 <b>XBTP</b>		<ul style="list-style-type: none"> <li>• <b>XBTP terminals</b></li> <li>- Fluorescent or back-lit LCD display</li> <li>- 2 lines of 20 characters, scrolling to 25 lines</li> <li>- Function and service keys</li> <li>- 256 kb Flash EEPROM memory, 400 application pages (approx), 256 available alarm pages</li> <li>- Optional Printer/Log function.</li> </ul>	 <b>XBTF</b>	<ul style="list-style-type: none"> <li>• <b>XBTF display units</b></li> <li>- Application and firmware storage on PCMCIA memory card.</li> <li>- Screens: back-lit grayscale LCD 5.7" or 9.5" color resistive matrix STN, 5.7", 10.4" TFT</li> <li>- Multiple static and dynamic keys on keypad units</li> <li>- Serial link communications/protocols for various types of PLCs</li> <li>- Easy configuration and operation providing three levels of password security</li> <li>- Compact design, spring mounting clips for fast installation</li> <li>- Customizable front panel design</li> </ul>
			 <b>XBTE</b>		<ul style="list-style-type: none"> <li>• <b>XBTE terminals</b></li> <li>- Fluorescent or back-lit LCD display</li> <li>- 2 or 4 lines of 40 characters, scrolling to 25 lines</li> <li>- Function, service and alphanumeric keys</li> <li>- 384 kb Flash EEPROM memory, 800 application pages (approx), 256 available alarm pages</li> <li>- Relay Output.</li> <li>- Optional Printer/Log function.</li> </ul>

For additional information, reference: Catalog Number **9001CT9701** or D-Fax™ #1556.  
 For Manufacturer's Declaration of Conformity, reference D-Fax™ #1557.



**Display units with 2 lines of 20 characters (fluorescent)**



**XBTH001010**

Downloadable Exchange Protocol	Possible Links	Supply Voltage Vdc	Language Version	Number of Keys	Catalog Number	Price
Refer to Page 16-131	No printer port No log	24	Multilingual	No keys	XBTH002010	<b>\$690.00</b>
				4 function keys 1 service key	XBTH022010	<b>812.00</b>
				5 service keys	XBTH012010	<b>812.00</b>
	Printer port and log	24	Multilingual	5 service keys	XBTH012110	<b>974.00</b>

**Display units with 2 lines of 20 characters (back-lit LCD)**



**XBTH021010**

Downloadable Exchange Protocol	Possible Links	Supply Voltage Vdc	Language Version	Number of Keys	Catalog Number	Price
Refer to Page 16-131	No printer port No log	24	Multilingual	No keys	XBTH001010	<b>\$469.00</b>
				4 function keys 1 service key	XBTH021010	<b>650.00</b>
				5 service keys	XBTH011010	<b>650.00</b>

**Documentation (to be ordered separately)**

Operating manual (A5 format) for XBTH/P/E	XBTX000US ■	<b>\$20.00</b>
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■ Replace the **US** at the end of the reference with **FR** for a document in French, **DE** in German, **ES** in Spanish and **1T** in Italian.

**Terminals with 2 lines of 20 characters (fluorescent)**



**XBTP022010**

Downloadable Exchange Protocol	Number of Keys			Supply Voltage Vdc	Language Version	Catalog Number	Price
	Function	Service	Number				
No printer port, No log							
Refer to Page 16-131	8	9	-	24	Multilingual	XBTP012010	<b>\$934.00</b>
	12	10	12	24	Multilingual	XBTP022010	<b>1077.00</b>
With printer port and log							
Refer to Page 16-131	12	10	12	24	Multilingual	XBTP022110	<b>1301.00</b>

**Terminals with 2 lines of 20 characters (back-lit LCD)**



**XBTP021010**

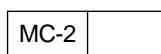
Downloadable Exchange Protocol	Number of Keys			Supply Voltage Vdc	Language Version	Catalog Number	Price
	Function	Service	Number				
No printer port, No log							
Refer to Page 16-131	8	9	-	24	Multilingual	XBTP011010	<b>\$771.00</b>
	12	10	12	24	Multilingual	XBTP021010	<b>915.00</b>
With printer port and log							
Refer to Page 16-131	12	10	12	24	Multilingual	XBTP021110	<b>1138.00</b>

**Documentation (to be ordered separately)**

Operating manual (A5 format) for XBTH/P/E	XBTX000US ▲	<b>20.00</b>
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▲ Replace the **US** at the end of the reference with **FR** for a document in French, **DE** in German, **ES** in Spanish and **1T** in Italian.

For additional information, reference: Catalog Number [9001CT9701](#) or D-Fax™ #1556.



# MAGELIS™ XBT Operator Interface

Operator Terminal – 2 or 4-Line XBTE  
Display Units with 8-Line Matrix Screen

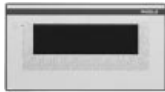
**Telemecanique**  
[www.squared.com](http://www.squared.com)  
FOR CURRENT INFORMATION



**XBTE013010**



**XBTE015010**



**XBTHM007010**



**XBTHM027010**



**XBTHM017\*10**

### Terminals with 2 lines of 40 characters (fluorescent)

Downloadable Exchange Protocol	Number of Keys			Supply Voltage Vdc	Language Version	Catalog Number	Price
	Function	Service	Number				
No printer port, No log							
Refer to Page 16-131	24	10	12	24	Multilingual	XBTE014010	\$ 1752.00
With printer port and log							
Refer to Page 16-131	24	10	12	24	Multilingual	XBTE014110	1997.00

### Terminals with 4 lines of 40 characters (fluorescent)

Downloadable Exchange Protocol	Number of Keys			Supply Voltage Vdc	Language Version	Catalog Number	Price
	Function	Service	Number				
No printer port, No log							
Refer to Page 16-131	24	10	12	24	Multilingual	XBTE016010	\$ 2038.00
With printer port and log							
Refer to Page 16-131	24	10	12	24	Multilingual	XBTE016110	2282.00

### Terminals with 2 lines of 40 characters (back-lit LCD)

Downloadable Exchange Protocol	Number of Keys			Supply Voltage Vdc	Language Version	Catalog Number	Price
	Function	Service	Number				
No printer port, No log							
Refer to Page 16-131	24	10	12	24	Multilingual	XBTE013010	\$ 1467.00
With printer port and log							
Refer to Page 16-131	24	10	12	24	Multilingual	XBTE013110	1712.00

### Terminals with 4 lines of 40 characters (back-lit LCD)

Downloadable Exchange Protocol	Number of Keys			Supply Voltage Vdc	Language Version	Catalog Number	Price
	Function	Service	Number				
No printer port, No log							
Refer to Page 16-131	24	10	12	24	Multilingual	XBTE015010	\$ 1751.00
With printer port and log							
Refer to Page 16-131	24	10	12	24	Multilingual	XBTE015110	1997.00

### Documentation (to be ordered separately)

Description	Format	Included in the Product	Catalog Number	Price
Operating manual (A5 format) for XBTH/P/E			XBTX000US ■	\$ 20.00

■ Replace the **US** at the end of the reference with **FR** for a document in French, **DE** in German, **ES** in Spanish and **IT** in Italian.

### Display Units with 8-Line Matrix Screen of 40 Characters (Back-Lit LCD)

Downloadable Exchange Protocol	Number of Keys			Supply Voltage Vdc	Language Version	Catalog Number	Price
	Function	Service	Number				
No printer port, No log							
Refer to Page 16-131	–	–	–	24	Multilingual	XBTHM007010	\$ 920.00
	4	1	–	24	Multilingual	XBTHM027010	980.00
	–	5	–	24	Multilingual	XBTHM017010	980.00
With printer port and log							
Refer to Page 16-131	–	5	–	24	Multilingual	XBTHM017110	1090.00

### Separate Parts

Description	Use	Catalog Number	Price
Development software	Under Windows 95 or NT 4.0, for downloading the application and protocols	See Page 16-130	–
Connecting cables	Connection to PLCs, configuration terminals, etc.	See Page 16-132	–

### Documentation

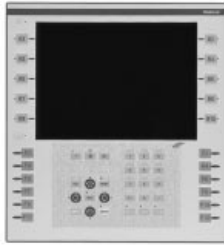
Description	Format	Included in the Product	Catalog Number ▲	Price
MAGELIS® User's Manual	A5 Bound (6 in x 8.25 in)	XBTL1003* AND XBTL1004*	XBTX000**	\$ 20.00

▲Add following suffixes **US**: English, **FR**: French, **DE**: German, **ES**: Spanish, **IT**: Italian

**16 PUSH BUTTONS AND OPERATOR INTERFACE**

For additional information, reference: Catalog Number [9001CT9701](#) or D-Fax™ #1556.





**XBTF024\*10**

**Terminals with Keypads**

Downloadable Exchange Protocol	Type and Size of Screen	Supply Voltage Vdc	Type III Slot for PCMCIA Communication Card	Catalog Number	Price
Refer to Page 16-131	Monochrome 5.7"	24	No	XBTF011110	\$ 2000.00
			Yes	XBTF011310	2250.00
	Monochrome 9.5"	24	No	XBTF023110	3400.00
			Yes	XBTF023310	3650.00
	Color 10.4"	24	No	XBTF024110	4900.00
			Yes	XBTF024310	5150.00



**XBTF034\*10**

**Terminals with Touch-Sensitive Screens**

Downloadable Exchange Protocol	Type and Size of Screen	Number of Keys	Supply Voltage Vdc	Type III Slot for PCMCIA Communication Card	Catalog Number	Price
Refer to Page 16-131	Color 5.7"	-	24	No	XBTF032110	\$ 2680.00
				Yes	XBTF032310	2930.00
	Color 10.4"	-	24	No	XBTF034110	5200.00
				Yes	XBTF034310	5450.00

**Touch N' Click Terminals with Graphic Screen**

Downloadable Exchange Protocol	Type and Size of Screen	Number of Keys	Supply Voltage Vdc	Type III Slot for PCMCIA Communication Card	Catalog Number	Price
Refer to Page 16-131	256 Colors 5.7" STN	4	24	Yes	XBTF022310	Consult Factory
		8	24	Yes	XBTF044310	
	256 Colors 10.4" TFT	16	24	Yes	XBTF084310	
		12	24	Yes	XBTF064310	

For additional information, reference: Catalog Number [9001CT9701](#) or D-Fax™ #1556.



**Software for MAGELiS® Terminals**

Multilingual software packages designed for FTX 517 terminals or PC compatibles (with a minimum of a 486 processor, 66 MHz, 30 Mb free space on the hard disk and 8 Mb RAM memory with Windows 95 operating system or 16 Mb RAM memory with NT 4.0 operating system). They are supplied with a programming stand, documentation for alphanumeric and graphic terminals, the XBTZ915 cable and 25-way/9-way connection interface XBTZ962 and the communication protocols: UNI-TELWAY, FIPIO, FIPWAY, Modbus, Jbus, Modbus Plus, and KS.



**XBTL1003•**

**Schneider Pack Software (with Groupe Schneider Protocols)**

Description	Compatibility	Operating System	Support	Documentation	Catalog Number	Price
Alphanumeric and graphic configuration	XBTH/P/E/HM XBTF TXBTF	Windows 95 or NT 4.0	CD-ROM	French	XBTL1003F	Consult Factory
				English	XBTL1003U	Consult Factory
				German	XBTL1003G	Consult Factory
				Spanish	XBTL1003S	Consult Factory
				Italian	XBTL1003IT	Consult Factory
				USA	XBTL1003U	\$ 700.00

**Open Pack Software (with Groupe Schneider and Third Party Protocols)**

Description	Compatibility	Operating System	Support	Documentation	Catalog Number	Price
Alphanumeric and graphic configuration	XBTH/P/E/HM XBTF TXBTF	Windows 95 or NT 4.0	CD-ROM	French	XBTL1004F	Consult Factory
				English	XBTL1004U	Consult Factory
				German	XBTL1004G	Consult Factory
				Spanish	XBTL1004S	Consult Factory
				Italian	XBTL1004IT	Consult Factory
				USA	XBTL1004U	\$ 850.00

Multilingual software packages designed for FTX 517 terminals or PC compatibles (with a minimum of a 486 processor, 66 MHz, 30 Mb free space on the hard disk and 8 Mb RAM memory with Windows 95 operating system or 16 Mb RAM memory with NT 4.0 operating system). It is supplied without documentation and without a cable, but with the communication protocols: UNI-TELWAY, FIPIO, FIPWAY, Modbus, Jbus, Modbus Plus, and KS.



**XBTL1004•**

**Schneider Pack Software (with Groupe Schneider Protocols)**

Description	Compatibility	Operating System	Support	Documentation	Catalog Number	Price
Alphanumeric and graphic configuration	XBTH/P/E/HM XBTF TXBTF	Windows 95 or NT 4.0	CD-ROM	To be ordered separately	XBTL1003	\$ 580.00

Multilingual software packages designed for FTX 517 terminals or PC compatibles (with a minimum of a 486 processor, 66 MHz, 30 Mb free space on the hard disk and 8 Mb RAM memory with Windows 95 operating system or 16 Mb RAM memory with NT 4.0 operating system). It is supplied without documentation and without a cable, but with Groupe Schneider and third party communication protocols.

For additional information, reference: Catalog Number [9001CT9701](#) or D-Fax™ #1556.



**Downloadable Protocols (On Diskettes)**

PLC Brand	Compatibility	Name of Protocol	Catalog Number	Price
Groupe Schneider	XBTH/P/E (only with XBTL1000 software)	UNI-TELWAY V 1.0 UNI-TELWAY V 2.0	XBTL1UTW01	\$ 120.00
		Modbus Jbus	XBTL1MOD01	120.00
		KS	XBTL1AEG01	120.00
Allen Bradley	XBTH/P/E/HM XBTF	DF1	XBTL1AB01	120.00
		DH485	XBTL1AB02	120.00
GE Fanuc	XBTH/P/E/HM XBTF	SNPX	XBTL1GE01	120.00
Omron	XBTH/P/E/HM XBTF	Sysmacway	XBTL1OMR01	120.00
Siemens	XBTH/P/E/HM XBTF	AS511 3964R	XBTL1SIE01	120.00
		PPI, MPI	XBTL1SIE02	120.00

**PCMCIA Type III Communication Card**



**XBTF01**

Type of Protocol	Catalog Number	Price
Modbus Plus for XBTF	TSXMBP100	\$ 617.00 ■
Modbus Plus for TXBTF	TSXMBP100	617.00 ■
FIPIO for XBTF	TSXFPP10	419.00 ▲
FIPWAY for XBTF	TSXFPP20	655.00 ▲
FIPIO/FIPWAY for TXBTF	TSXFPP20	655.00 ▲

- Use PC44 discount schedule for PCMCIA communication cards.
- ▲ Use PC14 discount schedule for PCMCIA communication cards.

**PCMCIA Type III Communication Card**

Size	Compatibility	Maximum Number of Pages		Catalog Number	Price
		XBTF01	XBTF01/F03 TXBTF		
4 Mb	XBTF/TXBTF	150	100	XBTFMEM04	\$ 143.00
8 Mb	XBTF/TXBTF	350	230	XBTFMEM08	238.00
10 Mb	XBTF/TXBTF	450	300	XBTFMEM10	302.00

**Sheets of Re-usable Label**

Color	Number of Sheets	Use	Catalog Number	Price
Grey/Blue	1	XBTH02*010	XBLYH4	\$ 18.00
		XBTP01*010	XBLYP8	18.00
		XBTP02**10	XBLYP12	18.00
		XBTE	XBLYE24	18.00
		XBTHM	XBLYHM4	18.00
		XBTF01	XBLYF10	18.00
		XBTF02/TXBTF02	XBLYF12	18.00

**XBT Accessories**

Description	Quantity	For Use With	Catalog Number	Price
MAGELiS stand	Package of (2) stands	XBTF/TXBT only	XBZ3001	\$ 45.00
Spring load clamps	Package of (12) clamps	XBTHM/F/TXBT	XBZ3002	50.00
Spring load clamps	Package of (10) clamps	XBTH/P/E	XBZ3003	40.00
Power supply connection	Package of (5) 3 pin and 5 pin connections	XBTH/P/E/HM/F	XBZ3004	45.00

For additional information, reference: Catalog Number [9001CT9701](#) or D-Fax™ #1556.



**Connecting Interface**

Usage	Connection	Compatibility	Catalog Number	Price
Between XBTZ915 cable and XBTf terminals	9-pins 25-pins	Graphic terminals (F-series only)	XBTZ962 ■	\$ 50.00

■ Included with graphical software.

**MAGELiS® Terminal Connecting Cables**

Direct connection of XBTHP/E/HM/F and TXBTF to Schneider PLCs

PLC Type to be Connected	Connector Type	Physical Link	Protocol	Length in m	Catalog Number	Price
Upload/Download	9-pin male	RS 232C		2.5	XBTZ915	\$ 70.00
TSX Nano, TSX Micro, TSX Premium	8-pin (female) mini-DIN terminal plug	RS 485	UNI-TELWAY (V1/V2)	2.5	XBTZ968	50.00
				5	XBTZ9681	50.00
TSX Premium with TSX SCY 2160*	25-pin female SUB-D	RS 485	UNI-TELWAY (V1/V2)	2.5	XBTZ918	50.00
TSX Quantum	9-pin male SUB-D	RS 232	Modbus	2.5	XBTZ9710	70.00
TSX Series 7 Model 40 processor & on	Connection box TSX LES 64/74	RS 485	UNI-TELWAY (V1)	5	XBTZ948	50.00
TSX Series 7 Model 40 with TSX SCM 21*6	25-pin female SUB-D	RS 485	UNI-TELWAY (V1)	2.5	XBTZ918	50.00
Modicon 984	9-pin male SUB-D	RS 232	Modbus	2.5	XBTZ9710	70.00
Modicon TSX - Compact/ Modicon Micro/ Momentum	RJ 45 male jack	RS 232	Modbus	2.5	XBTZ9711	70.00
AEG ALU	9-pin male SUB-D	RS 232	KS	2.5	XBTZ9712	70.00
AEG Micro	RJ 45 male jack	RS 232	KS	2.5	XBTZ9711	70.00



XBTZ928

**Direct Connection of XBTHP/E/HM/F to Third Party PLCs**

PLC Type to be Connected	Connector Type	Physical Link	Protocol	Length in m	Catalog Number	Price
Allen Bradley SLC5	9-pin male SUB-D	RS 232	DF1	2.5	XBTZ9730	\$ 70.00
Allen Bradley PLC5	25-pin female SUB-D	RS 232	DF1	2.5	XBTZ9720	70.00
Allen Bradley Micro-logix	Micro-logix 1000	RS 232	DF1	2.5	XBTZ9731	70.00
Allen Bradley	RJ45	RS 485	DH485	2.5	XBTZ9732	70.00
GE Fanuc Series 90	15-pin male SUB-D	RS 232/422	SNPX	2.5	XBTZ9750	70.00
Omron CQM1, CVM1	9-pin male SUB-D	RS 232	SYSMAC	2.5	XBTZ9740	70.00
Omron CVM1	9-pin male SUB-D	RS 422	SYSMAC	2.5	XBTZ9741	70.00
Siemens S7 PG	9-pin male SUB-D	RS 485	PPI	2.5	XBTZ9721	70.00
Siemens S5 CP525	25-pin female SUB-D	RS 232	3964(R)	2.5	XBTZ9720	104.00
Siemens S5 PG	15-pin female SUB-D	Current loop RS 232	AS511	2.5	XBTZ9739 + XBTZ909	88.00

**Direct Connection of XBTHP/E/HM/F to Third Party PLCs**

Bus/Network Type	Tap Element	Connector Type	Length in m	Catalog Number	Price
UNI-TELWAY	Customer plug TSX SCA 62	9-pin female SUB-D	1.8	XBTZ908	\$ 70.00
	Connection box TSX P ACC 01	8-pin female mini-DIN	2.5	XBTZ968	70.00
			5	XBTZ9681	70.00

For additional information, reference: Catalog Number 9001CT9701 or D-Fax™ #1556.

