



8.1 Automatic self-tests

When powering-up the XBT-A8 terminal, a series of tests is carried out automatically. These tests are also carried out during the test procedure of the CONFIGURATION mode. These checks are intended to reassure the user that the terminal is operating under the best conditions.

In order to quit a permanent fault, the supply voltage must be switched off.

TEST	DISPLAY	COMMENTS
PROM	*****	Internal FAULT if display permanent
	CHECK. PROG XXXX	Micro-program fault If display permanent => return the product
	XBT-A8 xxx VX.X	Brief display of the product reference and the software version
RAM	> RAM FAULT <	Memory FAULT If display permanent => return the product
REGISTER	> KEYBOARD FAULT <	FAULT with keyboard coding circuit If display permanent => return the product (check that no key is depressed)
	* RUNNING *	The XBT-A8 terminal is ready to use
EEPROM MESSAGE MEMORY	> EEPROM FAULT <	FAULT with EEPROM checksum. Press  to free the terminal. If fault persists => return the product.

8.2 Error messages

MESSAGE DISPLAYED	FUNCTION MODE	PROBABLE CAUSE	REMEDY
> LINE FAULT <	ADJUST MODE	Line fault XBT/TSX7	<ul style="list-style-type: none"> - Check the wiring - Test XBT-A8 serial port - Test the TSX terminal port - Check the position of TSX 7 memory cartridge lock
> TSX DATA FAULT <	ADJUST MODE	Non-existent TSX7 variable	<ul style="list-style-type: none"> - Check use of the variable in the TSX7
** --- ** (in the numeric field)	ADJUST MODE ASCII MODE	Value too large for numeric field	<ul style="list-style-type: none"> - Check the length of the numeric field - Check the conversion coefficient for the XBT-A8
>XXX = NO MESSAGE<	ADJUST MODE ASCII MODE	No message stored at address XXX	<ul style="list-style-type: none"> - Program the message - Change the address of the command
>AD PARITY FAULT<	ASCII MODE MULTIDROP	Addresses wired incorrectly	<ul style="list-style-type: none"> - Check the address wiring
>BAD RECORD<	STORING THE MESSAGES	Message incorrectly written in memory	<ul style="list-style-type: none"> - Check the message syntax
>EEPROM FAULT<	STORING THE MESSAGES	Power switched off during the storing procedure	<ul style="list-style-type: none"> - Press  to confirm

Summary of UNI-TE requests

• Messages specifically connected with UNI-TE protocol

MESSAGE DISPLAYED	FUNCTION MODE	PROBABLE CAUSE	REMEDY
> LINE FAULT <	UNI-TE PROTOCOL	<ul style="list-style-type: none"> - Address fault - Link between XBT-A8 and UNI-TELWAY module faulty - UNI-TELWAY station N° wired for XBT-A8 exceeds maximum configured for module - Module faulty 	<ul style="list-style-type: none"> The XBT-A8 occupies 2 addresses on the UNI-TELWAY bus (see section 5.4 UNI-TELWAY general). Check XBT-A8 addresses - Check the cable between the XBT-A8 and the module - Test the XBT-A8 serial port (see SELF-TESTS in section 4.1) - Check configuration of the module and the XBT-A8 station N° - Check the results of the module self-tests
>NO STATION<	UNI-TE PROTOCOL	<ul style="list-style-type: none"> No response to an XBT-A8 request UNI-TELWAY parameters incorrect, indicating a non-existing or faulty device 	<ul style="list-style-type: none"> Check parameters UNI-TELWAY NETWORK N° STATION N° GATE N° MODULE N° CHANNEL N° in the configuration of the serial line for operation (section 4.3)
>REFUSAL STATION<	UNI-TE PROTOCOL	<ul style="list-style-type: none"> Device refuses the action requested by the XBT-A8 because : - The variable does not exist for this station - The action requested is not allowed 	<ul style="list-style-type: none"> Check the address of the variable associated with the message Check the request code sent

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Summary of UNI-TE requests

Messages specifically connected with UNI-TE protocol (continued)

MESSAGE DISPLAYED	FUNCTION MODE	PROBABLE CAUSE	REMEDY
>AD PARITY FAULT<	UNI-TE PROTOCOL	Addresses incorrectly wired	- Check the UNI-TELWAY address cabling - Check TSX SCA 62 subscriber socket coding
NETW ADDR ERROR	UNI-TE PROTOCOL	- Address fault	Same as for "Line fault"
DATA ADDRESS ERROR	UNI-TE PROTOCOL	- The variable does not exist in the TSX 7 station	Same as for "Refusal station"
>OVERFLOW<	UNI-TE PROTOCOL	- Value entered by the operator too large	- Re-enter the value
INEXECUTABLE	UNI-TE PROTOCOL	- If message is type F associated with word Confirmed without numeric value or with incorrect value	- Re-enter the numeric value

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8.3 Table of ASCII codes

(Characters displayed by the Latin version of XBT-A8)

(ASCII : American Standard Code for Information Interchange).

BINARY				b6				b5				b4				b3				b2				b1				b0			
				0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
				HEXADECIMAL				0	1	2	3	4	5	6	7					0	0	1	1	0	0	1	1				
b3	b2	b1	b0					0	1	2	3	4	5	6	7					0	1	0	0	0	1	0	0	1	0	1	
0	0	0	0	0				NUL	DLE	SP	0	@	P	`	p					0	0	1	1	0	0	1	1				
0	0	0	1	1				SOH	DC1	!	1	A	Q	a	q					1	1	0	0	0	1	0	0	1	1		
0	0	1	0	2				STX	DC2	"	2	B	R	b	r					0	1	0	1	0	1	0	1				
0	0	1	1	3				ETX	DC3	#	3	C	S	c	s					2	3	4	5	2	3	4	5				
0	1	0	0	4				EOT	DC4	\$	4	D	T	d	t					0	0	0	0	0	0	0	0				
0	1	0	1	5				ENQ	NAK	%	5	E	U	e	u					1	1	1	1	1	1	1	1				
0	1	1	0	6				ACK	SYN	&	6	F	V	f	v					2	2	2	2	2	2	2	2				
0	1	1	1	7				BEL	ETB	'	7	G	W	g	w					3	3	3	3	3	3	3	3				
1	0	0	0	8				BS	CAN	(	8	H	X	h	x					4	4	4	4	4	4	4	4			
1	0	0	1	9				HT	EM	)	9	I	Y	i	y					5	5	5	5	5	5	5	5			
1	0	1	0	A				LF	SUB	*	:	J	Z	j	z					6	6	6	6	6	6	6	6				
1	0	1	1	B				VT	ESC	+	;	K	[	k	{					7	7	7	7	7	7	7	7			
1	1	0	0	C				FF	FS	,	<	L	\	l	|					8	8	8	8	8	8	8	8				
1	1	0	1	D				CR	GS	-	=	M	]	m	}					9	9	9	9	9	9	9	9			
1	1	1	0	E				SO	RS	.	>	N	^	n	~					A	A	A	A	A	A	A	A				
1	1	1	1	F				SI	US	/	?	O	_	o	DEL					B	B	B	B	B	B	B	B				
								control characters				displayable characters				characters displayed by the XBT															

8 Appendices

Table of ASCII codes

(Characters displayed by the Cyrillic version of XBT-A8 and configured in Russian).

(ASCII : American Standard Code for Information Interchange).

BINARY				b ₆				b ₅				b ₄		b ₃		b ₂		b ₁		b ₀		
				0	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	0	0	1	1
b ₃	b ₂	b ₁	b ₀	HEXADECIMAL	0	1	2	3	4	5	6	7	6	7	2	3	6	7				
0	0	0	0	0	NUL	DLE	SP	0	@	P	·	p	,	Ц								
0	0	0	1	1	SOH	DC ₁	!	1	A	Q	a	q	А	Я	✓	1	А	Я				
0	0	1	0	2	STX	DC ₂	"	2	B	R	b	r	Б	Р	"	2	Б	Р				
0	0	1	1	3	ETX	DC ₃	#	3	C	S	c	s	Ц	С	#	3	Ц	С				
0	1	0	0	4	EOT	DC ₄	\$	4	D	T	d	t	Д	Г	\$	4	Д	Г				
0	1	0	1	5	ENQ	NAK	%	5	E	U	e	u	Е	У	%	5	Е	У				
0	1	1	0	6	ACK	SYN	&	6	F	V	f	v	Ф	Ж	&	6	Ф	Ж				
0	1	1	1	7	BEL	ETB	'	7	G	W	g	w	Г	В	'	7	Г	В				
1	0	0	0	8	BS	CAN	(	8	H	X	h	x	Ж	Ь	(	8	Ж	Ь				
1	0	0	1	9	HT	EM	)	9	I	Y	i	y	К	Ц	)	9	К	Ц				
1	0	1	0	A	LF	SUB	*	:	J	Z	j	z	Й	Э	*	:	Й	Э				
1	0	1	1	B	VT	ESC	+	;	K	[	k	{	К	Щ	+	;	К	Щ				
1	1	0	0	C	FF	FS	,	<	L	\	l	|	Л	Э	,	<	Л	Э				
1	1	0	1	D	CR	GS	-	=	M	]	m	}	М	Щ	-	=	М	Щ				
1	1	1	0	E	SO	RS	.	>	N	^	n	~	Н	Ч	.	>	Н	Ч				
1	1	1	1	F	SI	US	/	?	O	_	o	DEL	О	DEL	/	?	О	DEL				

control
characters

displayable
characters

characters displayed by the XBT