

References

Basic Modicon TSX Nano units (1)

Number of I/O	Inputs	Relay outputs	Transistor outputs 24 V 0.5 A	Extended communication (2)	Reference (3)	Weight kg
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Power supply $\sim$ 24 V

10	6 $\sim$ 24 V	4	–	Yes	TSX 07 30 1022	0.290
		–	4 protected, positive logic	Yes	TSX 07 30 1012	0.270
		–	4 non protected, negative logic	Yes	TSX 07 20 1002	0.270
16	9 $\sim$ 24 V	7	–	Yes	TSX 07 31 1622	0.350
		–	7 protected, positive logic	Yes	TSX 07 31 1612	0.325
		–	7 non protected, negative logic	Yes	TSX 07 21 1602	0.325
24	14 $\sim$ 24 V	10	–	Yes	TSX 07 31 2422	0.400
		–	10 protected, positive logic	Yes	TSX 07 31 2412	0.370
		–	10 non protected, negative logic	Yes	TSX 07 21 2402	0.370

Power supply $\sim$ 100/240 V

10	6 $\sim$ 24 V	4	–	Yes	TSX 07 30 1028	0.300
		–	4 non protected, negative logic	Yes	TSX 07 20 1008	0.280
16	9 $\sim$ 115 V	7	–	Yes	TSX 07 21 1648	0.390
	9 $\sim$ 24 V	7	–	Yes	TSX 07 31 1628	0.360
		–	7 non protected, negative logic	Yes	TSX 07 21 1608	0.335
24	14 $\sim$ 24 V	10	–	Yes	TSX 07 31 2428	0.410
		–	10 non protected, negative logic	Yes	TSX 07 21 2408	0.380

Modicon TSX Nano bases with an analogue input

$\sim$ 100/240 V power supply

Number of I/O	Inputs	Relay outputs	Integrated analogue input	Reference (2)	Weight kg
10	6 $\sim$ 24 V	4	1 x 0/10 V	TSX 07 32 1028	0.290
16	9 $\sim$ 24 V	7	1 x 0/10 V	TSX 07 33 1628	0.290
24	14 $\sim$ 24 V	10	1 x 0/10 V	TSX 07 33 2428	0.290

(1) The basic Nano unit can be used as a basic PLC (1 per configuration), as an I/O extension (maximum of 1 per configuration) or as a PLC extension (maximum of 3 per configuration).

(2) TSX 07 3● nano-PLCs offer extended communication facilities: UNI-TELWAY slave link or ASCII transmitter/receiver link and Modbus slave link.

(3) A multilingual quick-reference guide (English, French, German, Italian and Spanish) is supplied as standard.



TSX 07 21 16●●/TSX 07 31 16●●



TSX 07 21 24●●/TSX 07 31 24●●

References



TSX AEN 10●

Analogue inputs (1)

Type	Number of channels	Type	Input range	Reference	Weight kg
High level 10/12 bits	1 channel	Voltage	0-10 V	TSX AEN 101	0.120
			± 10 V	TSX AEN 105	0.120
		Current	4-20 mA	TSX AEN 102	0.120

Analogue outputs (2)

Type	Number of channels	Type	Output range	Reference	Weight kg
High level 8 bits	1 channel	Voltage	0-10 V	TSX ASN 101	0.120
			± 10 V	TSX ASN 105	0.120
		Current	4-20 mA	TSX ASN 102	0.120

Accessories

Description	For use on	Length	Reference	Weight kg
Input simulator blocks 24/115 V	TSX Nano 10 I/O	–	TSX 07 SIM 06	0.050
	TSX Nano 16 I/O	–	TSX 07 SIM 09	0.070
	TSX Nano 24 I/O	–	TSX 07 SIM 14	0.080
Connecting cables between TSX Nano base units	I/O extension blocks	0.3 m	TSX CA0 003	0.015
	I/O extension blocks	50 m	TSX STC 050	1.710
	PLC extension	200 m	TSX STC 200	6.790
UNI-TELWAY cable connector	UNI-TELWAY tap link to TSX Nano programming port (with connecting cable on TSX side)	1 m	TSX P ACC 01	0.690
Description	Composition		Reference (3)	Weight kg
Self-training case (4)	1 TSX Nano (16 I/O), 1 input simulator block and and 1 FTX 117		TSX SDC 07 30 117	0.950
	1 TSX Nano (16 I/O), 1 input simulator block and 1 software pack for DOS/PC compatible		TSX SDC 30 DSP	0.600
CD-ROM	Includes all TSX technical documentation (hardware and software)		TSX CD D MTE 01●	0.120



TSX CD D MTE 01●

(1) Compatible with TSX 07 2●/3● ●●● base unit with 24 V inputs, used as basic PLC or as PLC extension (1 input module per TSX Nano).

(2) Compatible with TSX 07 3● ●●●● base unit with 24 V transistor outputs, used as basic PLC or as PLC extension (1 input module per TSX Nano).

(3) Replace the ● at the end of the reference with E to receive the CD-ROM in English.

(4) A multilingual quick-reference guide (English, French, German, Italian and Spanish) is supplied as standard.

Modicon TSX Nano-programmable controllers

Terminal FTX 117

References



T FTX 117

Terminals FTX 117 (with 4-line, back-lit LCD screen)

Description	Application	Documentation	Connecting cable	Reference (1)	Weight kg
Terminal FTX 117	Programming/adjustment of TSX Nano PLCs	Manual TLX DM 07 117●	Supplied	T FTX 117 071●	0.665
Terminal FTX 117 Adjust	Adjustment of TSX Nano/Micro PLCs Downloading/uploading of programs and data	Service instructions	Supplied	T FTX 117 ADJ 02	0.380

Accessories

Description	Length	Application	Unit reference	Weight kg
~ / = adaptors – for terminal FTX 117		Mains adaptor ~ 110/120 V	T FTX ADC 11	0.260
		Mains adaptor ~ 200/240 V	T FTX ADC 12	0.260

Connecting cables	2 m	FTX 117<-> TSX Nano	T FTX CB1 020	0.100
	5 m	FTX 117<-> TSX Nano	T FTX CB1 050	0.190

PCMCIA memory cards type 1	–	EEPROM 32 K words type	T FTX REM 3216	0.025
		Battery-backed RAM 32 K words type	T FTX RSM 3216	0.030
		Battery-backed RAM 128 K words type	T FTX RSM 12816	0.030

Batteries	–	For PCMCIA RAM type memory card	TSX BAT M01	0.010
		For PCMCIA RAM type memory card (Sold in lots of 10)	TSX BAT M101	0.120

Documentation

Description	Manual format	Included with product	Reference (1)	Weight kg
Installation manual TSX Nano/FTX 117	A5 bound	T FTX 117 071●	TLX DM 07 117●	0.265
Self-training manual TSX Nano/FTX 117	A5 bound	To be ordered separately	MD1 TLX DT FTX 117 30●	0.280

(1) Replace the ● at the end of the reference with **E** for the product to be delivered with documentation in English, **F** for documentation in French, **G** for documentation in German, **S** for documentation in Spanish, or **T** for documentation in Italian.

Modicon TSX Nano-programmable controllers

PL7-07 software

References

PL7-07 software packs running under DOS

Software packs designed for use on PC compatible terminals (minimum requirements: 386 processor, 4 Mb of RAM and DOS 3.3 operating system), for programming and debugging TSX Nano-programmable controllers in PL7 language.

Description	Support	Composition	Reference (1)	Weight kg
Software packs running under DOS Reversible List/ Ladder language	PC compatibles	2 x 3"1/2 diskettes 1 connecting cable TSX PCU 1030 1 installation manual	TLX L PL7 07P 30●	0.440

Accessories

Description	Length	Application	Reference	Weight kg
Connecting cables	2.5 m	Connection between TSX Nano and PC compatible (9-pin SUB-D connector)	TSX PCU 1030	0.140
Adaptor 9/25 pin	–	To adapt cable TSX PCU 1030 for IBM PS/2 (25-pin SUB-D connector)	TSX CTC 07	0.035

Documentation

Description	Manual format	Included with product	Reference	Weight kg
Installation manual TSX Nano/PL7-07	A5 bound	TLX L PL7 07P 30●	TLX DM 07 DS●	0.320
Self-training manual TSX Nano/PL7-07	A5 bound	To be ordered separately	TLX DT PL7 07 30●	0.320

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