

Schneider Series Service Manual

TSXP574823M

1. Description

The TSXP574823M from Schneider Electric is a compact PLC for process control applications. Its processing abilities encompass 10 to 30 simple loops, while a reset button provides a cold start when needed.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line TSX Micro PLCs
Part	Number TSXP574823M
Weight	1.00 lbs (0.45 kg)
Number	of Process Control Channels 10 up to 30 simple loops
RESET	Button Causes a cold start of the PLC when pressed
Memory	Description Internal RAM (with PCMCIA card) 48 Kwords data, Internal RAM (without PCMCIA card) 48 Kwords program and data, PCMCIA card 160 Kwords program, PCMCIA card 2688 Kwords additional data storage
Internal	RAM 48Kwords for program and data
No.	of Racks Supports up to 16 racks
Discrete	I/O Processor Capacity 1024 I/O
Analogue	I/O Processor Capacity 80 I/O
Integrated	Connection Type Non-isolated serial link (2 female mini DIN, 19.2 kbit/s) and Ethernet TCP/IP (RJ45, 10/100 Mbit/s)
PCMCIA	Slots 2 slots, one for memory extension card and another for communication card or 4 Mb SRAM memory extension card
Communication	Module Processor Capacity 1 fieldbus module (none if CANopen used), 4 AS-Interface bus modules, 1 CANopen
Execution	Time per Instruction 0.1

3. Product Information

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Technical specifications for TSXP574823M

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PCMCIA Slots 2 slots, one for memory extension card and another for communication card or 4 Mb SRAM memory extension card

Communication Module Processor Capacity 1 fieldbus module (none if CANopen used), 4 AS-Interface bus modules, 1 CANopen

Execution Time per Instruction 0.19 µs for Boolean without PCMCIA card, 0.21 µs for Boolean with PCMCIA card

Application Structure 1 master task, 1 fast task, 64 event tasks

Max. Size of Object Areas 30.5% MWi internal words located internal data, 32% KWi constant words located internal data, 8132% Mi located internal bits

Display Block Comprising 5 LEDs on the front panel

Description

The Schneider Electric TSXP574823M is part of the TSX Micro PLCs series and is a flexible solution for managing process controls. This unit can handle 10 to 30 simple loops through its designated process control channels. A notable feature of the TSXP574823M is its RESET button, which, when pressed, initiates a cold start of the PLC, facilitating system resets.

In terms of memory, it includes 48 Kwords of internal RAM, supporting both program and data storage. If utilizing a PCMCIA card, the PLC expands to 160 Kwords for programs and can accommodate 2688 Kwords for supplementary data storage.

The device supports a maximum of 16 racks, thus allowing for extensive input-output connections. It can process up to 1024 discrete I/O and 80 analogue I/O. The built-in connection types include a non-isolated serial link with two female mini-DIN ports at 19.2 kbit/s and Ethernet TCP/IP connectivity via RJ45, providing substantial networking capabilities. Two PCMCIA slots are available: one dedicated to memory extension and the other for communication purposes or a separate 4 Mb SRAM memory extension card.

The communication module processor can manage one Fieldbus module (when not using CANopen), up to four AS-Interface bus modules, and one CANopen connection. The TSXP574823M offers efficient processing with an execution time of 0.19 µs per Boolean instruction without a PCMCIA card or 0.21 µs with one installed.

Structurally, the PLC supports one master task, one fast task, and up to 64 event tasks. The maximum allocation for object areas is defined by internal data limits, including 30.5% for MWi internal words, 32% for KWi constant words, and substantial internal bit storage. Lastly, the front panel houses a display block with five LED indicators, providing valuable operational status feedback.

Category

22558-TSX PREMIUM, ATRIUM & PL7 PRO

Discount Schedule

PC22

GTIN

3595862058636

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

3.5 in (9.0 cm)

Package 1 Width

7.09 in (18.0 cm)

Package 1 Length

10.2 in (26.0 cm)

Package weight(Lbs)

27.3 oz (775.0 g)