

Schneider Series Service Manual

TSXPBY10

1. Description

The Schneider Electric TSXPBY10 module is a Profibus-DP Option Module designed for integration with Modicon Premium PLCs. This component supports transmission rates, ranging from 9.6 Kbit/s to 12 Mbit/s, maximizing data handling capabilities.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line TSX Micro PLCs
Part	Number TSXPBY10
Weight	1.00 lbs (0.45 kg)
Module	Type Profibus-DP Option Module
Compatibility	Compatible with Modicon Premium PLCs
Transmission	Rate Supports 9.6 Kbit/s to 12 Mbit/s
Maximum	Segment Length Up to 1200 meters at 9.6 Kbit/s
Number	of Slaves Supports up to 124 slaves with repeaters
Input/Output	Data Size 4096 inputs / 4096 outputs
Operating	Temperature 0 °C to +60 °C
Storage	Temperature -25 °C to +70 °C
Humidity	30% to 95% (non-condensing)
Altitude	0 to 2000 meters
Vibration	Immunity Complies with IEC 68-2-6 standard
Shock	Immunity Complies with IEC 68-2-27 standard
Electrostatic	Discharge Immunity Complies with IEC 1000-4-2 standard
Power	Supply 5 V DC provided by the rack power supply
Current	Consumption 400 mA on 5 V DC

3. Product Information

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Technical specifications for TSXPBY10

Manufacturer Schneider Electric

Product Line TSX Micro PLCs

Part Number TSXPBY10

Weight 1.00 lbs (0.45 kg)

Module Type Profibus-DP Option Module

Compatibility Compatible with Modicon Premium PLCs

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Maximum Segment Length Up to 1200 meters at 9.6 Kbit/s

Number of Slaves Supports up to 124 slaves with repeaters

Input/Output Data Size 4096 inputs / 4096 outputs

Operating Temperature 0 °C to +60 °C

Storage Temperature -25 °C to +70 °C

Humidity 30% to 95% (non-condensing)

Altitude 0 to 2000 meters

Vibration Immunity Complies with IEC 68-2-6 standard

Shock Immunity Complies with IEC 68-2-27 standard

Electrostatic Discharge Immunity Complies with IEC 1000-4-2 standard

Power Supply 5 V DC provided by the rack power supply

Current Consumption 400 mA on 5 V DC

Description

The Schneider Electric TSXPBY10 Profibus-DP Option Module is crafted for seamless compatibility with Modicon Premium PLCs. It operates within a versatile transmission range of 9.6 Kbit/s to 12 Mbit/s, enabling efficient communication across your network.

When configured, this module can support a maximum segment length of 1200 meters at the lower transmission rate of 9.6 Kbit/s, facilitating expansive installation flexibility. When implemented, repeaters can serve up to 124 slave devices, enhancing control over a larger array of equipment.

The TSXPBY10 is well-suited for demanding automation tasks. Its input/output data size capacity is 4096 inputs and 4096 outputs, and it performs reliably across operational temperatures from 0 °C to +60 °C and can endure storage conditions ranging from -25 °C to +70 °C. Furthermore, it operates efficiently in environments with a humidity level between 30% and 95% without condensation, ensuring functionality under various conditions.

Engineered for high-performance applications, this module can withstand altitudes of up to 2000 meters. Its resilience is underscored by its compliance with IEC standards for vibration (IEC 68-2-6), shock (IEC 68-2-27), and electrostatic discharge (IEC 1000-4-2). The module draws a 5 V DC power supply sourced from the rack power supply, with a current consumption of 400 mA, making it straightforward to integrate into existing systems.