

Schneider Series Service Manual

TSXP47425

1. Description

The Schneider Electric TSXP47425 is a Modicon series controller designed for precise operations in industrial environments. With a rated voltage of 24V DC, it consumes a power of 15 watts and can sustain an operating temperature between -10°C and +60°C.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon
Part	Number TSXP47425
Weight	2.63 lbs (1.19 kg)
Rated	Voltage 24V DC
Rated	Current 1.2 A
Power	Consumption 15W
Operating	Temperature Range -10°C to +60°C
Storage	Temperature Range -25°C to +70°C
Degree	of Protection IP20
Communication	Interface Modbus, Ethernet, CANopen, and Profibus DP
Memory	Capacity 1MB program memory, 128KB data memory
Input	Voltage Range 20V to 30V DC
Program	Scan Time 1 ms per 1K of program memory
I/O	Capacity 256 digital I/O, 128 analog I/O
Number	of Expansion Slots 4
Mounting	Type DIN rail mounting
Real-Time	Clock Integrated, battery-backed

3. Product Information

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Technical specifications for TSXP47425

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Real-Time Clock Integrated, battery-backed

Description

Designed for versatility, the TSXP47425 from Schneider Electric operates at a rated voltage of 24V DC and requires a current of 1.2 A for its functions. This unit features a modest power consumption of 15 watts. It is capable of performing within a temperature range of -10°C to +60°C during operation and can be stored in conditions spanning from -25°C to +70°C. The device offers IP20 protection, suitable for less harsh environments.

Equipped for communications, the controller supports various protocols like Modbus, Ethernet, CANopen, and Profibus DP, facilitating seamless integration into a variety of systems. Its memory is substantial, with 1MB allocated for program storage and 128KB for data retention. The program scan time is efficient at 1 millisecond per 1 kilobyte of program memory, ensuring rapid processing.

The I/O capacity is extensive, supporting 256 digital and 128 analog I/O points, making this controller suitable for complex controls. Additionally, it includes four expansion slots, allowing for additional module installations to meet expanding requirements. This unit is designed for DIN rail mounting, simplifying setup in control panels. It also features an integrated real-time clock that is backed by a battery, providing reliability for time-sensitive applications.

Overall, the dimensions of the TSXP47425 are 130 mm wide, 160 mm high, and 115 mm deep, allowing for efficient use of space in industrial setups.