

Schneider Series Service Manual

TM221C24R

1. Description

The TM221C24R is a Modicon series controller developed by Schneider Electric, tailored for versatile automation applications. With a power supply requirement of 24 V DC, it supports up to 14 digital inputs and 10 relay-type digital outputs, along with 2 analog inputs (0-10V).

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon
Part	Number TM221C24R
EAN	3606480648717
Weight	1.00 lbs (0.45 kg)
Power	Supply Voltage 24 V DC
Number	of Digital Inputs 14
Number	of Digital Outputs 10 (Relay Type)
Analog	Input 2 (0-10V)
Processor	Type 32-bit
Processing	Speed 22 ns per instruction
Memory	Capacity 256 kB (Program Memory)
Data	Storage 64 kB (Retention Memory)
Expansion	Capacity Supports additional I/O modules
Real	Time Clock Built-in
Operating	Temperature -10°C to 55°C
Mounting	Type DIN Rail Mount
Length	130 mm
Width	95 mm
Description	
The	Schneider Electric TM221C24R is designed as a compact, high-performance controller within the Modicon range. Operable with a power supply of 24 V DC, it offers 14 digital inputs for various sensor and control applications. Users can utilize 10 relay-type digital outputs for controlling devices. Additionally, the device accommodates 2 analog inputs, allowing for voltage readings within a range of 0 to 10 volts.

3. Product Information

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Technical specifications for TM221C24R

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Width 95 mm

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This unit is equipped with a 32-bit processor, guaranteeing efficient processing capabilities at a speed of 22 ns per instruction. For memory, the TM221C24R provides 256 kB specifically for program storage, alongside 64 kB allocated for data retention, ensuring critical data remains accessible. The controller supports further expansion through additional I/O modules, creating flexibility for various systems.

Incorporating a real-time clock, the TM221C24R can manage time-sensitive tasks, which is essential for automation processes. Designed to function within a temperature span from -10°C to 55°C, it can perform across a variety of operational environments. Moreover, it is suitable for DIN rail mounting, with dimensions of 130 mm in length and 95 mm in width, making it a practical choice for installation in control panels.