MBs-16RTD

16 Channel RTD
Temperature Input Module

Introduction

MBs-16RTD is one of the temperature input modules of MERITEK MBs series PLC. It provides 16 channels of RTD temperature measurement input with 0.1 ℃ or 1 ℃ resolution. The scan rate for 0.1 ℃ resolution is 4 seconds, while the scan rate for 1 ℃ resolution is 2 seconds. This module provides three-wire connection for RTD temperature sensor, thus can automatically compensate the resistance introduced by the wiring.

Specifications

Total Channels - 16 CH

Resolution- 0.1 ℃ or 1 ℃

I/O Points Occupied –

1 RI(Input Register)

8 Discrete Output(DO)

Conversion Time- 2 or 4 Seconds

Accuracy- ±1 **%**

Sensor Type- Pt-100, Pt1000 (JIS or DIN)

Software Filter- Moving average

Average Samples- 1,2,4,8configurable

Measurement Range-

Pt100: -200~850℃

Pt1000: -200~600℃

Isolation- Transformer(Power) and photo-coupler(Signal)

Indicator(s) – 5V PWR LED

Supply Power- 24V-15%/+20%, 2VA

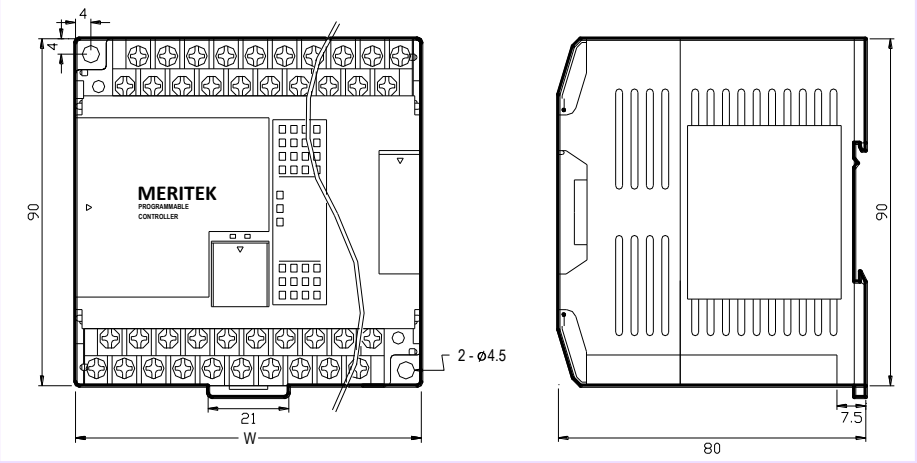
Internal Power Consumption- 5V, 100mA

Operating Temperature- 0 ~ 60 ℃

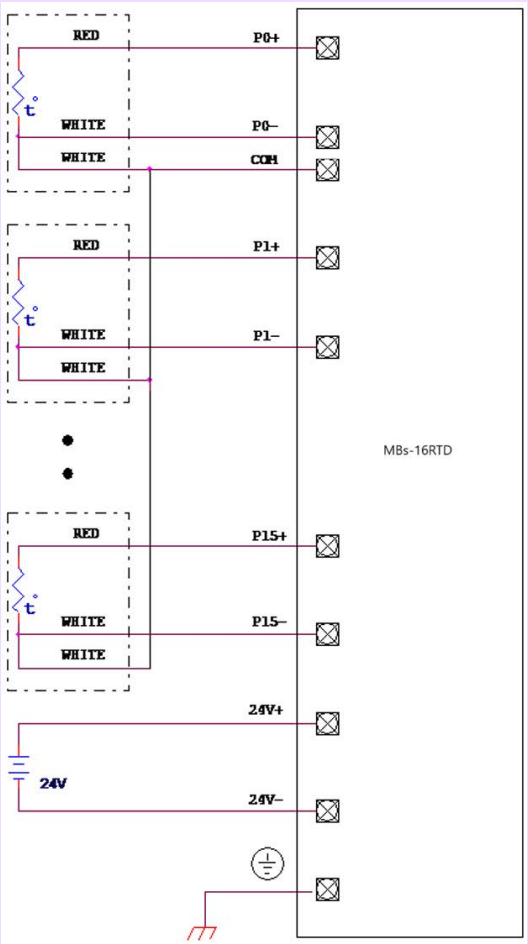
Storage Temperature- -20 ~ 80 ℃

Dimensions- 90(W)x90(H)x80(D) mm

Dimensions

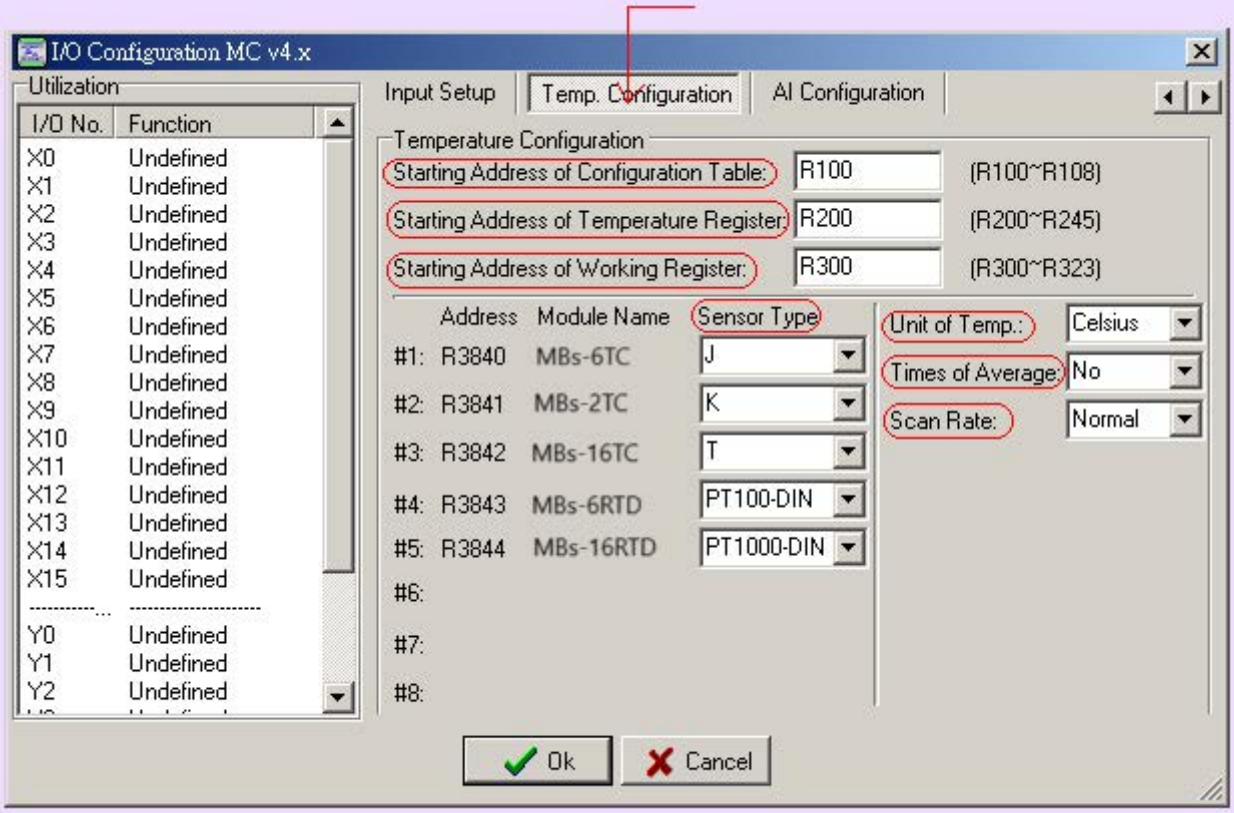


Wiring Diagram



I/O Configuration

Before the temperature value can be retrieved, the user should perform the I/O configuration of temperature module with the help of Winproladder software. The following screen will be shown when perform the I/O configuration



The user need to assign a starting register of a contiguous register area for holding temperature reading value and areas for storing the configuration table and working scratchpad and define the sensor type, unit of temperature, scan speed and samples for average. Please refer the advanced manual II for detail explanation.