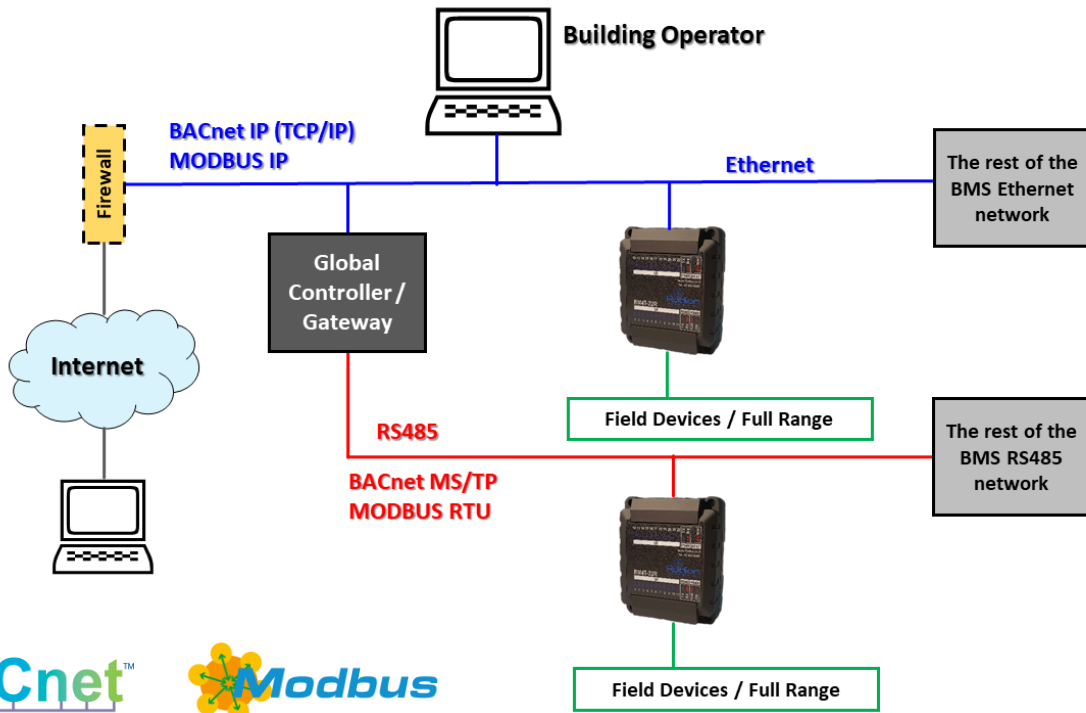# BACnet and MODBUS Remote Modules

The BM4T General-Purpose modules add input/output expansion space for building automation systems.

BM4T-22R support both BACnet and Modbus over both RS485 and the Ethernet ports. All settings are available as BACnet objects and Modbus registers.
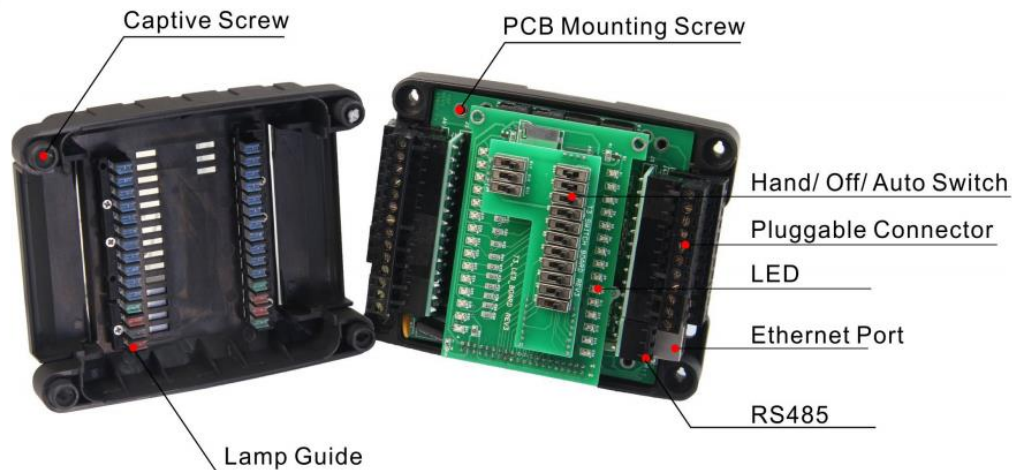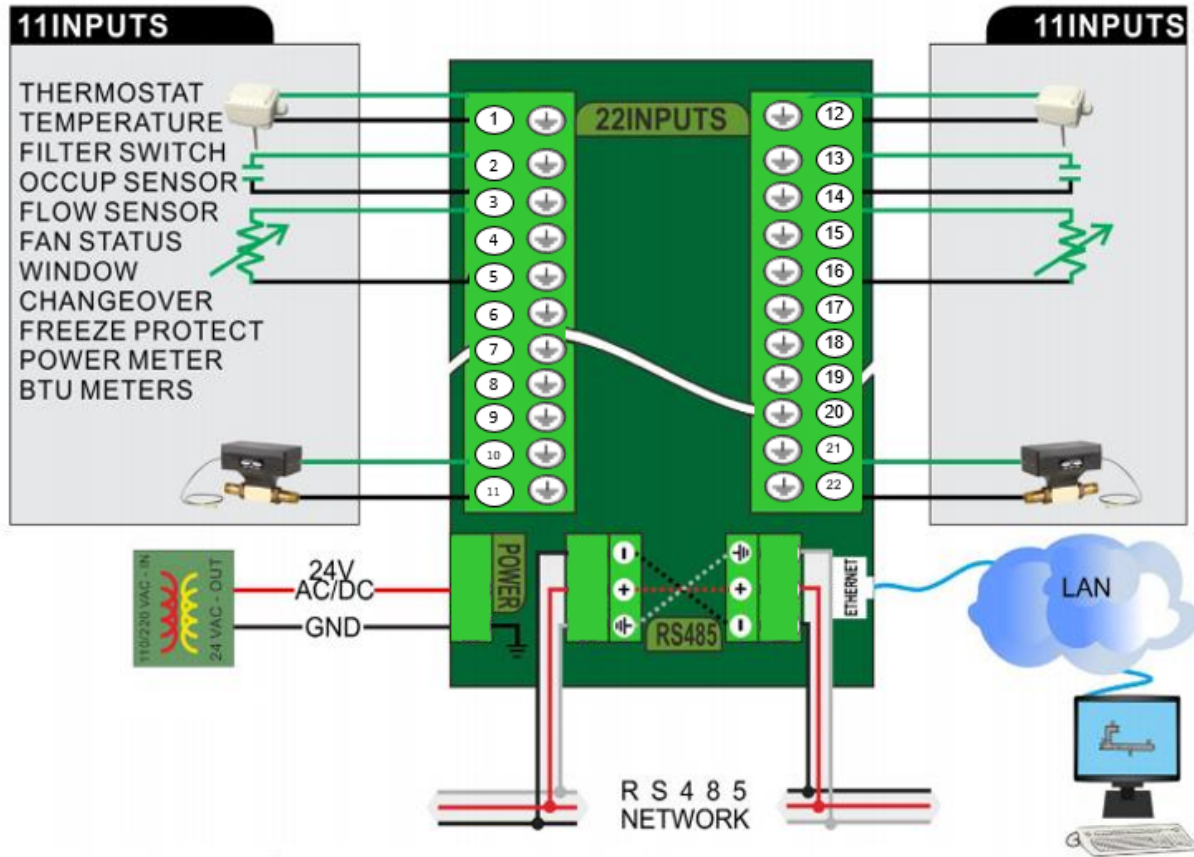
**BM4T-22R**



## System Overview

| Features | Specifications |
|---|---|
| ❖ Surge-protected Universal Inputs with 10-bit resolution. | ❖ BM4T-22R analog input: 22 AI @ 0-5V, 0-10V, 4-20mA, 10K Type2 NTC |
| ❖ UL listed ABS enclosure with rubberized texture creates a high-end feel. | ❖ BM4T-22R, Digital input: DI @ pulse counter |
| ❖ The RS485 port has sepa upstream and downstrear connectors to make troub easier. | ❖ Baud Rate: 9600, 19200, 38400, 57600, 76800,115200 |
| ❖ Software configure the I/O ranges with a free software or by writing to the registers with your own software. | ❖ Operating temperature: -30~70°C (-22~158°F) <br> ❖ Supply voltage: 15~24VAC/DC ±10%, 5060Hz |
| ❖ Each input, as well as the RS485 connections have a separate screw terminal, there is no need to gang two wires under one terminal for any of the terminations. | ❖ Power consumption: 100mA at 15~24VAC/ DC <br> ❖ Storage temperature: -40~85°C <br> ❖ Operating ambient humidity: 0-80 %Rh |
| ❖ Each output has a Hand-Off-Auto switch for easy troubleshooting and overrides. | ❖ Communications: RS485, Ethernet <br> ❖ Enclosure color: Black |
| ❖ Baud Rates: 9600, 19200, 38400, 57600,76800 and 115200 bps. | |
| ❖ The BM4T modules support BACnet over MSTP and TCP/IP as well as Modbus RTU and TCP/IP | |
| ❖ In the first 10 seconds period, heartbeat LED on the BM4T-22R will be flashing, in the rhythm of 2 fast 1 slow, to show the device is in ISP mode now. | |

## Highlights :



Captive Screw
PCB Mounting Screw
Hand/ Off/ Auto Switch
Pluggable Connector
LED
Ethernet Port
RS485
Lamp Guide

## Connection diagram for BM4T-22R:



## Dimensions:
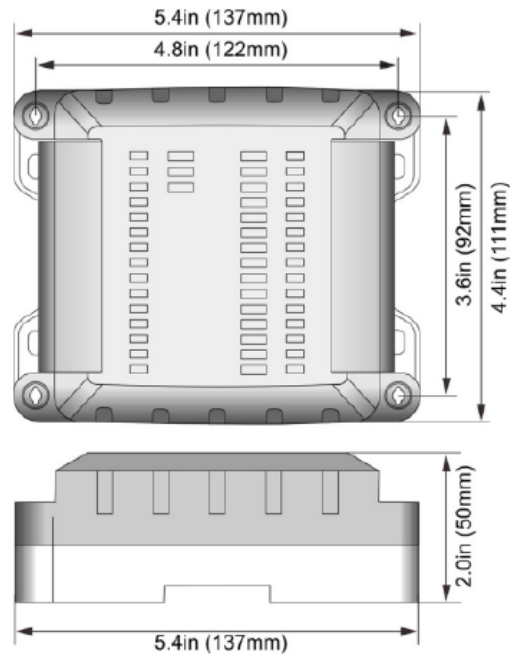
## Part Number Scheme:

## BM4T - ### R

→ Remote Module

→ **22** – 22 Universal Inputs

→ BACnet & MODBUS

Ethernet (TCP/IP) & RS485 support

Remote I/O module
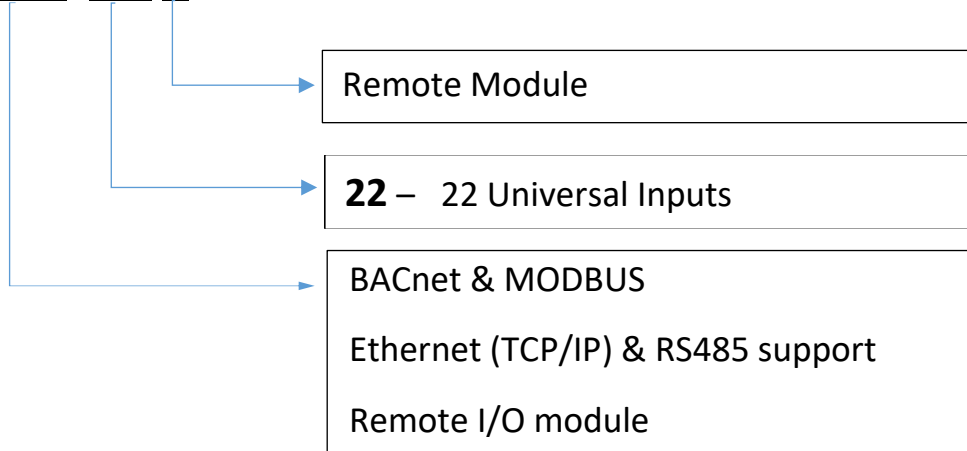
## Approvals

| Plastic Enclosure | PA66 |
|---|---|
| FCB | FR-4 Epoxy Glass Cloth UL File No. E365137 |
| Terminal Block | PA66 UL File No. E365137 |
| Relay | UL File No. E332982 |

**Radion Engineering is ISO 9001-2015 certified since 1999**

**Radion Engineering Co. Ltd.**

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