

3 Phase Power meter

Descriptions

The WattMon® is a full featured power meter which measures electrical power consumption, volts, amps, phase and many other electrical parameters. Use on delta and wye services of 1, 2 and 3 phases at voltages from 90 to 600 Vac and currents from 5 to 6,000 amps.

Internal CT's capable of 50A simplify installation and reduce cost for smaller services or use with external 330mv CT's for larger services. This is one of the most 'connected' meters on the market. There are two communications ports, one RS485 and the optional wifi port. On the wifi link, the unit can communicate using both Bacnet IP and Modbus IP protocols. On the RS485 port both Bacnet MSTP and Modbus RTU are supported. Both protocols on both ports.

General purpose inputs allow monitoring of switches and temperature sensors and various equipment. Four relays provide outputs for managing other equipment. These i/o are general purpose slave I/O which your application can manage using Modbus and Bacnet protocol commands.

Many LEDs provide a visual indication of the i/o state and communications traffic. The unit can be din rail or panel mounted. Power can be provided by any convenient 120 to 220VAC supply, including the supply which is being monitored.



Highlights

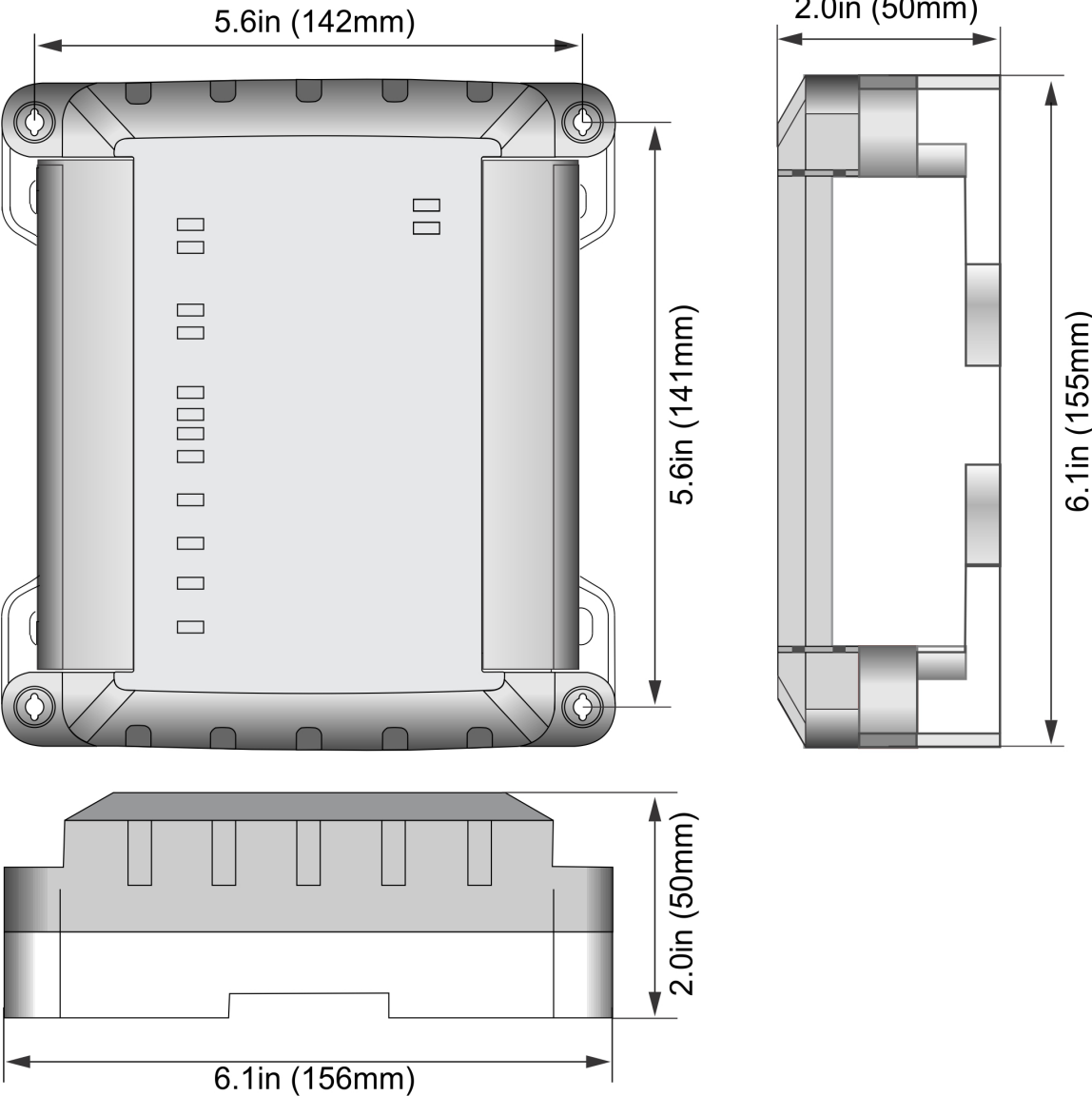
1. Output: 4 relays, configurable as alarm outputs for under or over voltage, amps, power, or power factor.
2. RS485 port supports Modbus RTU and Bacnet MSTP; Wifi port supports Modbus IP and Bacnet IP.
3. Integrates easily to all typical control system environments.

Specifications

Power supply	90-260V AC/DC 50/60Hz
Measured objects	Volts, Amps, Watts, Power factor, frequency, energy consumption, reactive power
Direct input range	Voltage: 0-600V Current: 0-50A
P/T	Use external PT's for voltages over 600V
CT	Use external CT's for amps over 50A, 330mv type
Communication	RS485, MODBUS RTU protocol; RS485, MSTP Bacnet protocol; Wifi, Modbus IP Wifi, Bacnet IP

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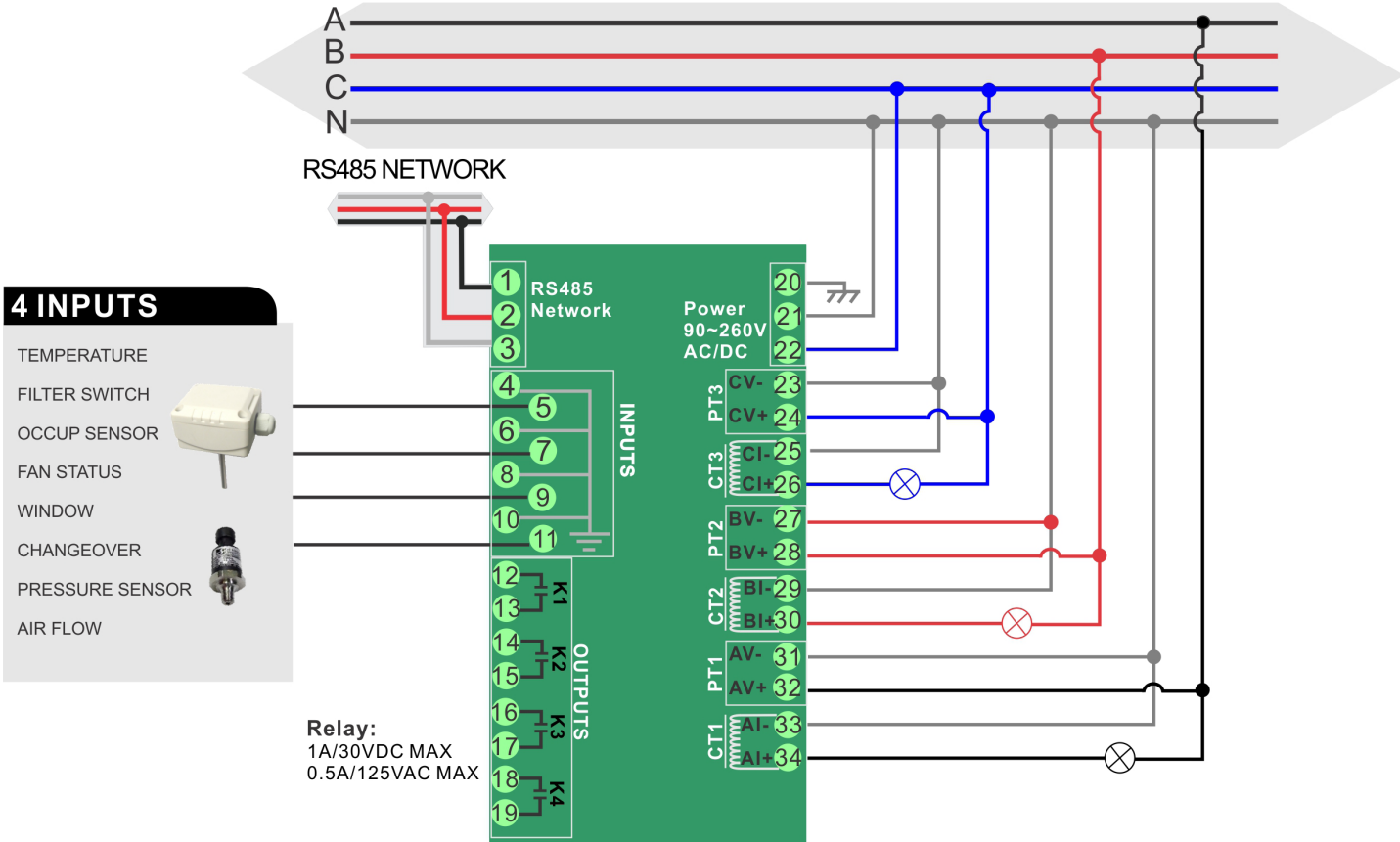
Dimensions



3 Phase Power meter

Wiring Diagrams

Simple phase connections(3 phase 4 wires simple connection,without PT,without CT)

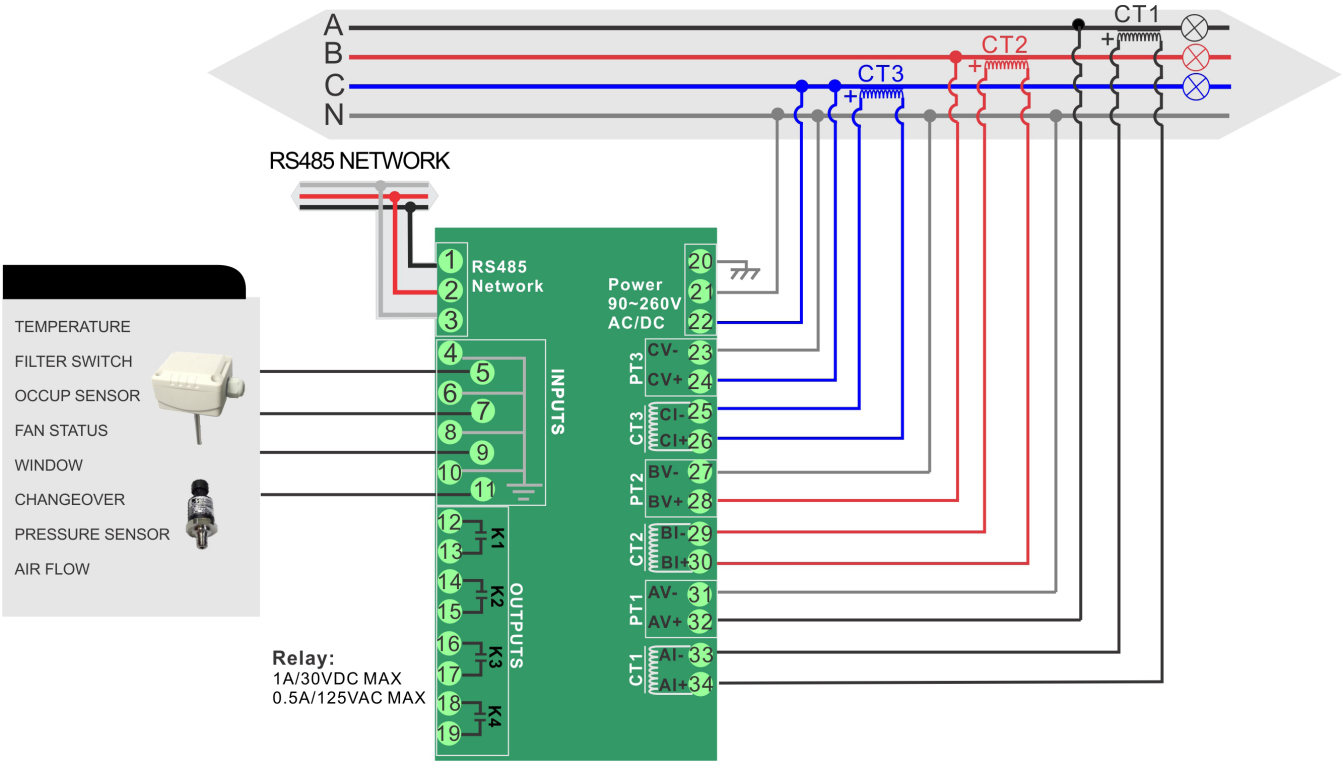


Note:

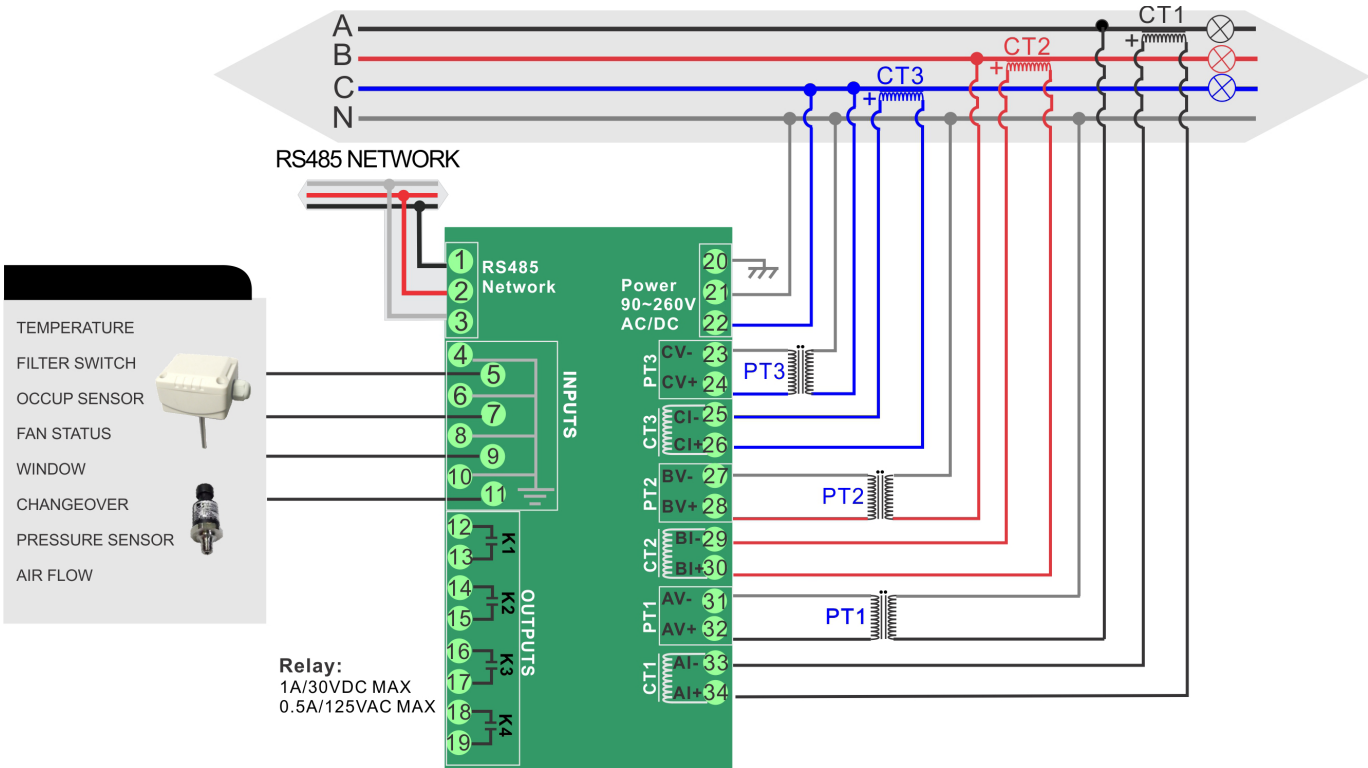
Values are 8 gigit LED display in total,each 4 in UP and DOWN.Normally displays DOWN 4 digits. Press the lamp flashes,then display the UP values.

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3 phase 4 wires without P/T,CT connections:

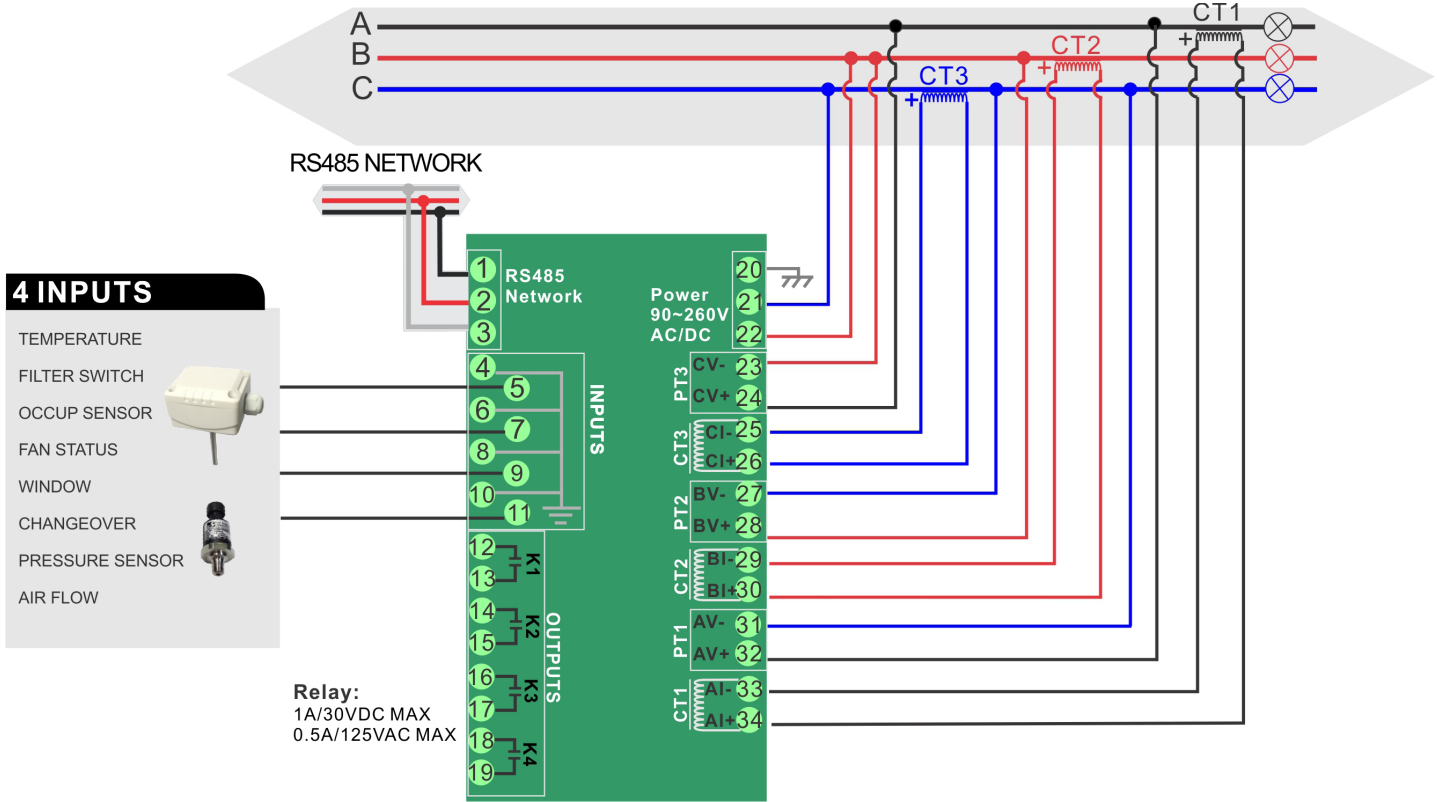


3 phase 4 wires with P/T,CT connections:



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3 phase 3 wires(power for A/B phase,c phase for display only,without PT)

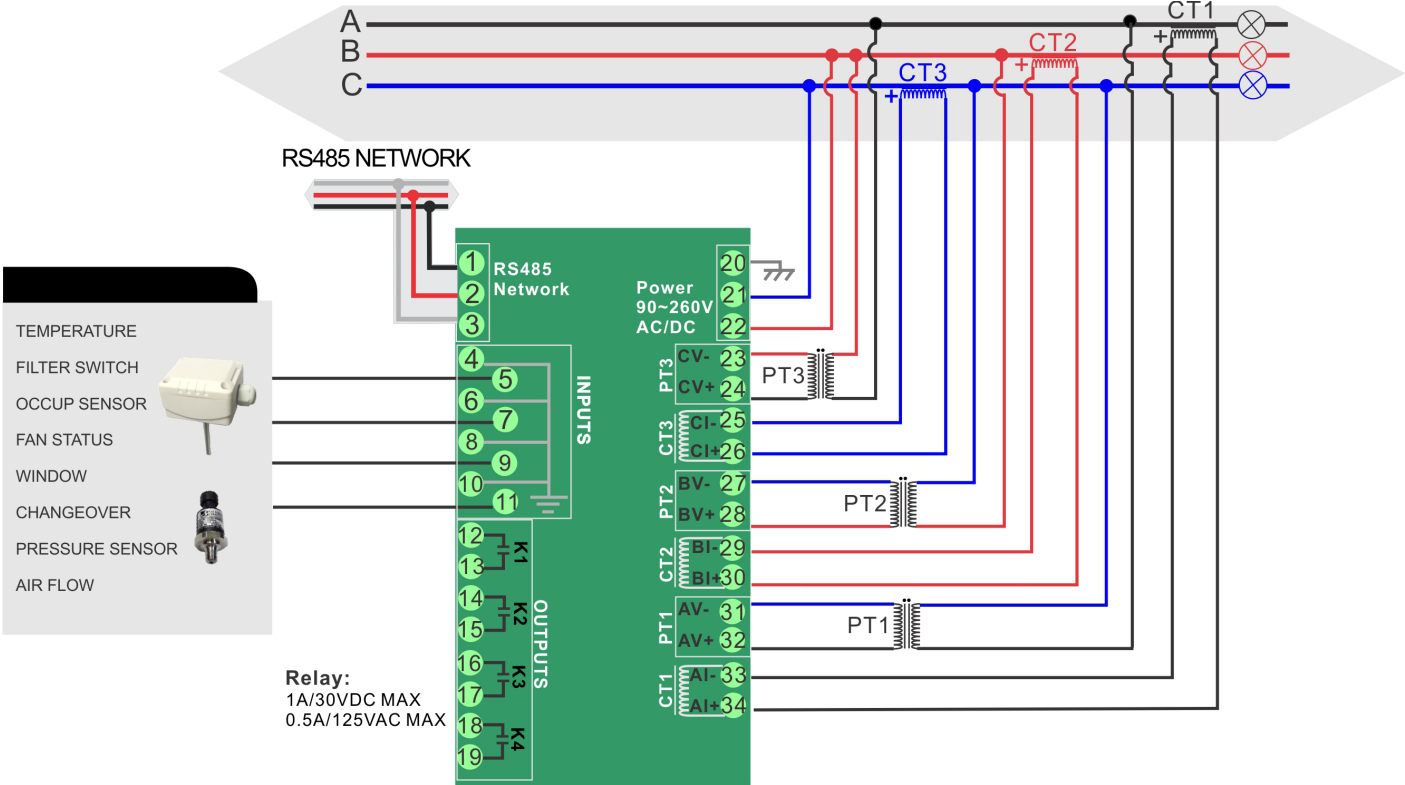


Notes:

When there is no transformer, please connect volt/amphere in series directly, eg the connection of 3 phase 4 wires without P/T, C/T connections.

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3 phase 3 wires 3 phase(A/B phase ,C phase for display only,with PT)



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Warning

Please do not turn the power supply until all of the wiring is completed. Otherwise electrical shock, fire or malfunction may result.

Do not wire when the power is on.

Do not connect the unused terminals

Do not turn on the power supply when cleaning this instrument.

Do not disassemble, repair or modify the instrument. This may cause electrical shock, fire or malfunction.

Use this instrument in the scope of its specifications.

Otherwise fire or malfunction may result.

The use life of the output relay is quite different according to its capacity and conditions. If use out of its scope, fire or malfunction may result.

Caution

This instrument should be installed in a domestic environment. Otherwise electrical shock, fire or malfunction may result. The operating temperature environment should be between 0(32F) to 50(122F).

To avoid using this instrument in environment full of dust or caustic gas.

To avoid using this instrument in environment of strong shock or concussion.

To avoid using this instrument in environment of overflow water or explosive oil.

In case the instrument is used in environment of nuclear control, medical equipment, auto, train, airplane or security equipment that need protections, please contact the manufacturer for details.