Wireless logger MD8000 series with monitoring function Transmitter for Ethernet connection model (temperature / humidity sensor model)

PS
PERFORMANCE SPECIFICATION
CHINO

Wireless logger MD8000 series with monitoring function (Ethernet connection model) is system equipment having 3 steps of function. At first, the receiver received data such as temperature, humidity, voltage signal and alarm wireless from dedicated transmitters (up to 60 units) distributed. Secondly, transfers data to an Ethernet-connected computer. Lastly, dedicated application software (sold separately), collects data and monitors various alarm system equipment.

This PS sheet contains explanations for the temperature / humidity sensor model of transmitter for Ethernet connection model (thermistor for temperature sensor and electrostatic capacity type high polymer membrane for humidity sensor).The transmitter can also be used as a relay for wireless communication. Up to 6 relay stages are possible.

■Models

MD8□12-□00

Power supply type
    0: battery   1
    1: AC power supply   2
    2: Dedicated battery   3
Cable length
    N: Direct attachment
    1: 1m   3: 3m   5: 5m

* 1 Alkaline AA batteries × 2 (Standard accessories included)
  2 Dedicated AC adapter: 12 V output (standard included)
  3 Dedicated lithium battery (standard included) ... Not a charging type.
f it is damaged due to the dedicated item, please purchase a new item (format SPN) from our company.

Specifications
Main unit usage environment: Battery, AC power supply specification ..
  -10 to 50 ° C
(AC adapter - 0 to 40 ° C)
10 to 80% RH (without condensation)
Dedicated battery specification ... -20 to 60 ° C,
10 to 90% RH (without condensation)
Protective structure: IP 64 (Battery, dedicated battery specification only)
Weight: Approx. 130g(battery specification), approximately 160g(AC power
specification)
      Approximately 180 g (dedicated battery specification)
      (Note) In case of direct sensor attachment Battery, AC adapter,
exclusive use battery not included.
Material: ABS resin
Wireless system: Specified low-power radio ARIB STD T-67
Wireless frequency: 429.2500 to 429.7375 MHz
Transmission output: 10 mW
      (Communication distance: indoor outlook approximately 100 m, Outdoor outlook approximately 400 m. However it varies depending on the use environment)
Contact specification: At output ... Load voltage max 30 V DC, load current Max 70 mA, ON resistance max 35 Ω
Input ... Output voltage 3.0 V or less, Input resistance 1 kΩ or less
Applicable connection cable ... Single wire AWG 22 ~ 16,
Twisted wire AWG 24 to 16
Accessories: Manual instruction 1
Test report 1
Wood screws for wall mounting 2
Alkaline AA battery 2
Dedicated AC adapter (cable length 1.5 m)
Dedicated lithium battery
Replacement sensor: Model MD9203

Power supply
  Battery specification
Power supply: Alkaline AA batteries × 2 or NiMH rechargeable batteries × 2
Power consumption: Up to about 0.2 W
Battery life: About 11 months
    (Only when recording interval is 10 minutes, no relay operation, recorded data collection communication every 10 days, No monitoring communication, no alarm occurrence, at ambient temperature 25 ° C)
  AC power supply specification
Power supply: Dedicated AC adapter (input: 100 to 240 VAC / output: 12 VDC) and backup built-in secondary battery (charged when AC adapter is driven)
Power consumption: Up to about 1.5 W
Backup time: More than 4 days by secondary battery (about 30 hours full charge)
    (Only when recording interval is 10 minutes, no relay operation, recorded data collection communication 1 time, no monitoring communication, at ambient temperature 25 ° C)
  Specific battery specification
Power supply: Dedicated lithium battery × 1 pack
Power consumption: Up to about 0.2 W
Battery life: About 2 years
    (Only when, recording interval is 10 minutes, no relay operation, Recorded data collection communication every 10 days, no monitoring communication, no alarm occurrence, at ambient temperature 25 ° C)

■Measurement specification
Measurement range
Battery specification, AC power supply specification
Temperature
-10.0 to 50.0 ° C (direct sensor attachment)
-20.0 to 60.0 ° C (cable length: 1 m, 3 m, 5 m)
Humidity 0 to 100% RH
Dedicated battery specification
Temperature
-20.0 to 60.0 ° C
Humidity
0 to 100% RH
Measurement accuracy: Temperature ± 0.5 ° C ± 1 digit (when the main body is -5 to 50 ° C)
± 1.0 ° C ± 1 digit (when the main body is not the above)
Humidity   ± 3% RH ± 1 digit
(20 to 80% RH, when the main body is 25 ° C.), temperature coefficient: ± 0.4% RH / ° C.)
(± 10.0 ° C for temperature measurement value and ± 10% off for humidity measurement value can be set)
Resolution: 0.1 ° C and 1% RH
Response time: Temperature ... Approximately 12 minutes
      Humidity ... Approximately 30 seconds
Recording interval: 5, 10, 30 seconds, 1, 5, 10, 15, 30 minutes, 1, 2, 3 hours
The number of recorded data: 16,000 / channel

PX-43-2

Display
Display: Reflective LCD
Display content: Measured value (temperature, humidity), clock, recorded / not recorded, recording mode (Endless / one time), radio field strength (4 levels), alarm(ALARM), remaining battery level (4 levels, battery specification), AC drive
(AC power supply specification)
Measurement display update: When the recording interval is 5 or 10 seconds, record every time.
Updated every 30 seconds if it is longer than 30 seconds.
Fixed for 5 seconds for AC power model

Alarm specification
Setting: Set from application software of PC
 Type: Upper limit / lower limit / upper-upper limit / lower-lower limit / rise change
rate/ declining change rate / integration
 (The change rate is the difference from the previous measurement value.
Integration is the temperature accumulated value from the start of recording and the setting of accumulated alarm)
Judgment: Determine at every data recording timing, send to the receiver at alarm establishment, display ALARM, or transfer to the receiver and clearing of ALARM display by clearing the alarm

Additional function: Alarm monitoring time zone ... Set time zone and day of the week to monitor
Alarm delay ... The alarm is not established until data exceeding the alarm point continues for the specified number of times.
Change rate alarm establishment condition ... Set the number of recorded data not to be alarmed judged from the start of recording (0 to 10 times)
Alarm terminal block: Terminal block of this instrument is assigned to "alarm output" or "trigger input"
(Assignment selection depends on computer application)
 Alarm output
Contact output from terminal block at alarm occurrence
 Trigger input
Alarm monitoring only when terminal block conduction (short circuit)
(Note) Alarm terminal block only AC power supply specification
Equipment status alarm: Send to receiver when following occurs
· Battery low level (in case of battery specification)
· AC power shutdown (AC power supply specification)
· Measurement value under / Over range
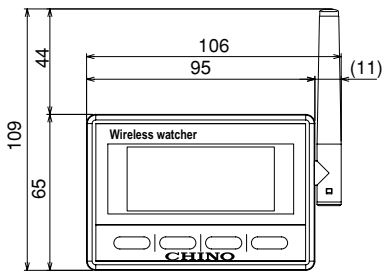· Burnout of temperature / humidity sensor

 Other functions:
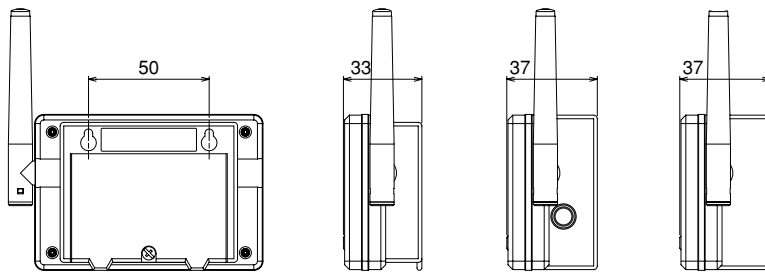Start / stop measurement: By key operation of this instrument
Key lock: Enable / disable key operation of this instrument
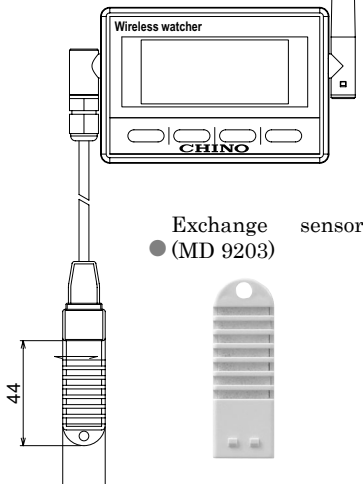
■ External dimensions
● Transmitter (main unit)

(Battery Specification)

(AC power supply specification)

(Dedicated battery specification)

● Mounting holder (optional)

(Sensor unit)

Exchange sensor
● (MD 9203)

For battery specification
Double-sided tape sticking type (MD 9010)
Double-sided adhesive tape

For battery specification
Magnet mounting type (MD 9020)
Magnet

AC power supply · For dedicated battery specification
Double-sided tape sticking type (MD9011)
Double-sided adhesive tape

AC power supply · For dedicated battery specification
Magnet mounting type (MD9021)
Magnet
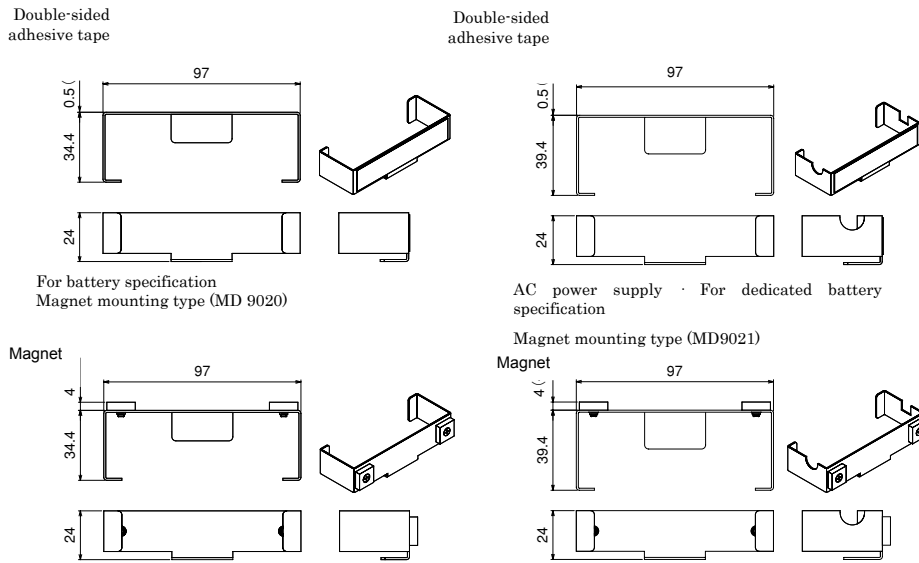
Unit ：mm

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