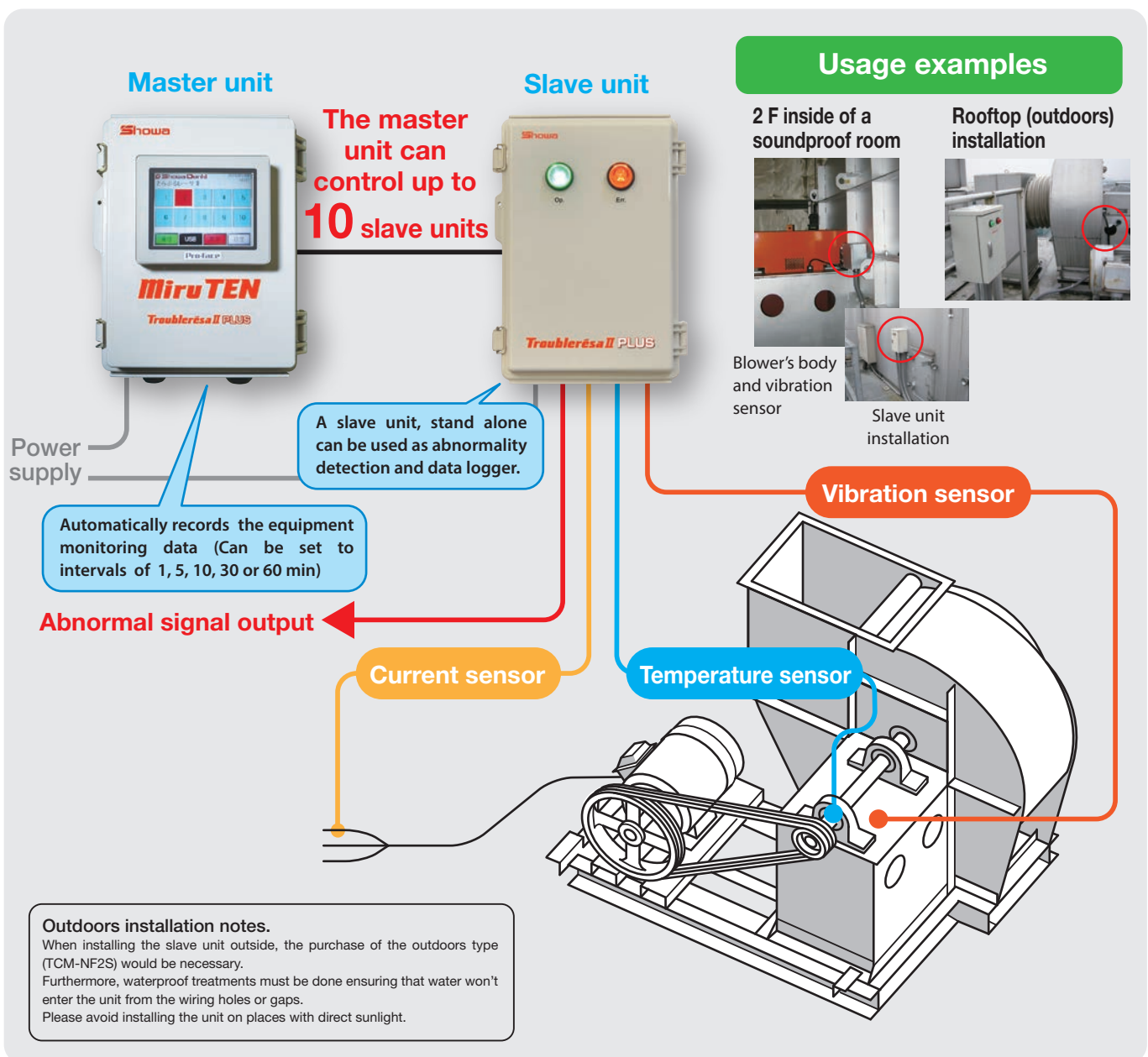


Are your machines installed in; out of reach, narrow, dark or high temperature locations?

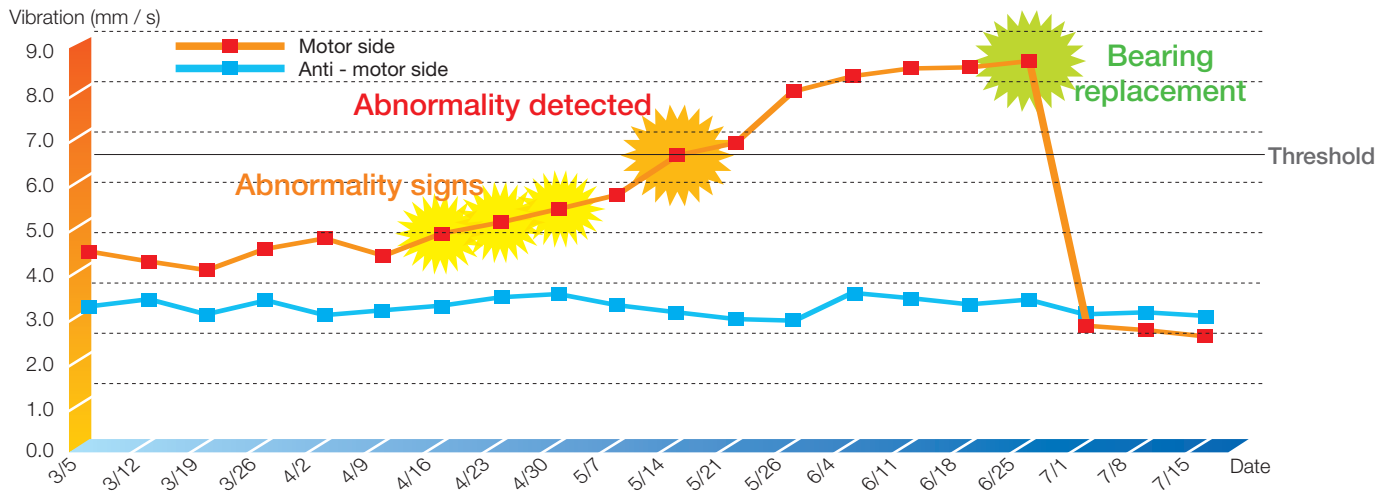
Connecting the analog sensors (6 channels) and temperature sensors(2 channels), will allow you to immediately monitor a machine on the spot .

Troubleresa II PLUS

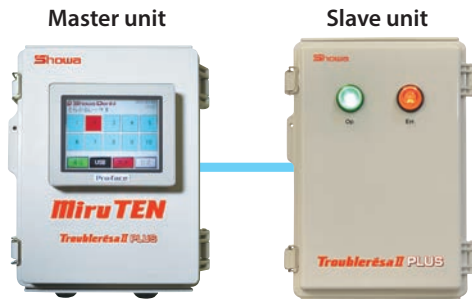


Blower's vibration measurement record example

In this case, there was a margin of 2.5 months since signs of abnormality appeared. It was possible to fix it on about one month after the troubleresa detected the abnormality.



Product introduction



functions

- ① 6 analog sensor channels + 2 temperature sensor channels
- ② Able to determine the type of abnormality
- ③ Upper and lower threshold settings.
- ④ Supports environmental temperatures up to 50°C.
- ⑤ Outdoors model equivalent to IP65.

II PLUS New functions

| Unit Type | Function ID | Description |
|-------------|-------------|---|
| Slave unit | 1 | The slave unit can monitor abnormalities by itself <small>*if using 2 or more slave units a master unit is necessary</small> |
| | 2 | The slave unit can record data |
| | 3 | Connect to an existing network |
| Master unit | 1 | Connect to an existing network |
| | 2 | Information displayed in English or Japanese |
| | 3 | FTP function added |
| | 4 | 2 external outputs added |
| | 5 | Automatic return from error screen |

Customizable to meet the customer specifications



Hand carry demo set

The Hand carry set is useful to take with you and do demonstrations on the spot!

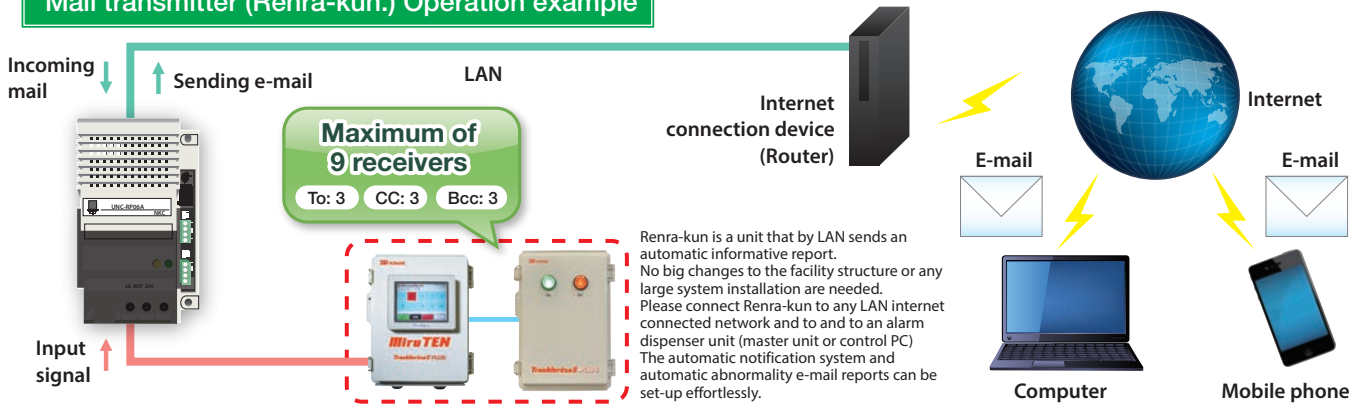


You can combine any type of filter to adapt the Troublersesa to your specifications or environment.

When an error occurs, it sends an alarm mail to the person in charge.

Feel relieved even at night or on holidays!

Mail transmitter (Renra-kun.) Operation example



You will need

- A computer
- LAN cable
- The transmitter (Renra-kun)
- A Router

Setting procedure

- 1 Download the transmitter application
- 2 Connect it to a PC with LAN cable
- 3 Open the transmitter's browser screen and set it up
- 4 After the set up, wire the inputs / outputs
- 5 Complete it connecting the transmitter to the network



Can be used as abnormality detector (one single slave unit)



Used for constant monitoring (for 2 or more slave units)

Specification



Slave unit

| | | Specifications | Notes |
|-----------------------------|------------------------------|---|--|
| Model | | TCM-NF2P | |
| Features | | 1. Data can be saved inside the slave unit • If using a single slave unit, the measured values from all the 8 channels can be stored on a CSV file inside the unit. (maximum 480 data unit, data will be stored on intervals of 30 min on a period of 10 days, once de 480 data unit will be reached the units would be replaced from the oldest one) • To extract the data from the slave unit, connect this one to a PC with a LAN cable, using Internet Explorer would allow you to see it. 2. E-mail sending function (optional) You can send an abnormality alarm mail to a total of 9 addresses (To·CC·BCC 3 of each) 3. Blinking red lamp • The red lamp will blink when an anomaly will be detected, making it easier to notice. | |
| Power supply | Voltage | AC100~240V 50/60Hz | Power supply cable not included |
| | Allowable voltage range | AC85~265V 47~63Hz | |
| | Power consumption | MAX 7W (36W) | The power consumption with sensors included is indicated between brackets () |
| Input | Measurement points | 8ch (6 switched 0-5V/4-20mA channels, 2 temperature channels) | |
| | Measurement range (accuracy) | 0-5V: 2%FS (output ±0.1V) | |
| | | 4-20mA: 1.5%FS (output ±0.24mA) | |
| | Resolution | 0-5V: 0.001V | The standard temperature sensor limit is set on a MAX of 150°C |
| | | 4-20mA: 0.004mA | |
| | Sensor power supply | DC24V/MAX0.9A | The total value is the value of the 6 channels |
| Terminal shape | Terminal block | | |
| Output points | External output contacts | 2 no voltage form A connectors | |
| | Contact capacity | AC250V/DC30V 5A | |
| | Terminal shape | Terminal block | |
| Indicator light | Monitoring light | Green colour (lighted up while monitoring, in any other case will flash) | |
| | Abnormality detection light | Red colour | |
| Communication | Protocol | Modbus/TCP | |
| | Terminal | Ethernet (RJ-45) | |
| Environmental specification | Temperature | -10~+50°C | |
| | Humidity | 10~90%RH (without condensation) | |
| | Ubication | Indoors | Special outdoor measures available |
| Casing | Material | ABS (Acrylonitrile butadiene styrene) | |
| | Dimension | D280xW190xH100mm (excluding protuberances) | |
| | Weight | 1.5kg | |

*Please contact us for outdoors specifications



Miru Ten



Monitoring Software (coming soon)

Master unit (Miru Ten)

| | | Specifications | Notes |
|-----------------------------|-------------------------|---|---|
| Model | | FCM-BM2PT | |
| Features | | • Up to 10 slave units can be connected. • The data saving intervals can be set to 1, 5, 10, 30 or 60 min. • 8 GB USB memory included (can store data for more than 10 years) | |
| Power supply | Voltage | AC100~240V 50/60Hz | |
| | Allowable voltage range | AC85~265V 50/60Hz | |
| Communication | Power consumption | MAX 10W | In case of communicating 10 slaves units. |
| | Protocol | Modbus/TCP | |
| Environmental specification | Terminal | Ethernet (RJ-45) | |
| | Temperature | 0~50°C | |
| | Humidity | 10~85%RH (without condensation) | |
| Casing | Location | Indoors | |
| | Material | ABS (Acrylonitrile butadiene styrene) | |
| | Dimension | D160xW220xH130mm (excluding protuberances) | |
| Output points | Weight | 1.4kg | |
| Output points | | 2 no voltage connectors | |

Master unit monitoring software (PC use)

| | | Specifications | Notes |
|--------------------------|-----------------------------|---|---|
| Model | | FCM-BM2P (monitoring software) | |
| Features | | • Up to 100 slave units can be connected. • A PC with Windows OS is necessary (supports Windows 7, 8 and 10). • The data saving intervals can be set to 1, 5, 10, 30 or 60 min. • 9 data display units, another additional 5 units can be set up freely. | |
| Operating specifications | PC | Normal PC working on Windows OS. (not included) | |
| | OS | Windows*7 | 32bit/64bit (Enterprise, Ultimate, Professional, Home Premium, Starter) |
| | | Windows*8 | |
| | | Windows*10 | |
| | CPU | 32bit/64bit (core, Pro, Enterprise) | |
| | Free space on HDD | Windows*10 32bit/64bit | |
| Resolution | 1.5GHz or more (1.5GHz min) | | |
| Others | Resolution | 5GB (recommended) | |
| | Resolution | 1280x768 or more (recommended) | |
| Others | | Microsoft.NET Framework4 Communication foundation: Ethernet port (LAN port) CD-ROM Reader (necessary for installation) | |

*The PC is not included and must be purchased by the customer

| Optional parts | Specifications | Notes |
|---|--------------------------------------|------------|
| Vibration sensor (VS-2502-□□, VS-V103-01) | Slave unit outdoors model | (TCM-NF25) |
| Temperature sensor (YYU4KM04B20A) | Slave unit wall mounting parts | (BFL-2G) |
| Current sensor (CTT-□□-CLS-CV-□□) | Magnet (to fix the vibration sensor) | (MG-01) |
| Mail transmitter (UNC-RP06A) | | |

Components to prepare by the customer LAN Cable (category 5e or more) •Generic USB Hub •Wireless LAN •Sensors •Wiring installation •Power cord

This product detects abnormalities caused on rotating machines, it doesn't count with countermeasures or fixing function. Furthermore abnormalities that can not be detected with this product may occur.

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Search

