



Data logger for various on-site measurements

# PORTABLE DATA LOGGER TS-360



The image displays the T-ZACCS 3 portable data logger system, which consists of several interconnected units. The central unit is the Control unit TS-360, featuring a color LCD screen showing 'T-ZACCS 3' and 'TS-360', a numeric keypad, and various status indicators. It is connected to a Battery unit BA-360, which provides power. The system also includes a Driver unit AU-50MA, which has multiple channels (CH.1 to CH.10) for data acquisition. A Master unit AU-50M and an Alarm unit AL-360 are also part of the system. The units are shown in a layered arrangement, with the Control unit at the top, the Battery unit below it, and the Driver unit at the bottom. The background is a blue gradient with a faint image of a city skyline and a construction site.

# T-ZACCS 3

**T-ZACCS 3**  
Control unit **TS-360**

**T-ZACCS +**  
Battery unit **BA-360**  
Driver unit **AU-50MA**

Master unit **AU-50M**  
Alarm unit **AL-360**

**T-ZACCS UNIT**  
Channel unit **AU-10**  
Channel unit **AU-10-05**

Tokyo Measuring Instruments Laboratory Co., Ltd.

## Features

- Can be configured from small to large measurement systems
- LAN communication with remote measurement assistance function
- Low power consumption operation
- Measurement speed 0.08 sec/point  
\*0.2 sec/point when measured by TML-NET
- External switch box can connect up to 20 units, 1000 points, 2 km when booster power is turned on
- Channel unit AU-10/AU-10-05:  
Color LED lights up when measuring  
(Strain [red]/DC voltage [blue]/Thermocouple [green])

## Point

1.

### Up to 1000 points

Number of measurement points  
up to 50 points connected to the  
main unit

External connection:  
up to 1000 points total

2.

### LAN interface as standard

Remote control is available!

3.

### TML-NET Compatible

100 units can be connected  
with TML-NET

4.

### Connection to Switching box

T-ZACCS BOX AU-50, ASW-50C,  
and SSW-50D can be connected  
as an external switching box!

5.

### Battery-powered operation

Powered by 4 single batteries  
or AC adapter (12V battery).

6.

### Alarm output supported

Monitors the specified channel,  
closes the specified contact point  
according to the set value  
(relative value, upper/lower limit value),  
and operates rotating lights, etc.

# Application

—For example, you can do this!



Case  
1.



## Pavement

Point

TS-360 is battery-operated, making it powerful in places where there is no power supply!

Point

Connecting to an external switch box, up to 1000 points can be used, making it useful for multi-point field measurements!

Case  
2.



## Slope and mountain area

Point

"TML-NET" can be used. Therefore, it can be used at landslide and water level observation sites where measurement points are scattered

Point

Supports sleep interval measurement, ideal for unattended measurement using dry cell batteries or batteries at sites that are distant or difficult to access!

Case  
3.



## Bridge

Point

When used in connection with an external switch box, you can have the right number of points where you need them!

Point

TS-360 also supports online measurement by connecting I/F (LAN, USB, RS-232C)!

Case  
4.



## Tunnel

Point

TS-360 can increase the number of points and distribute placement as construction progresses!

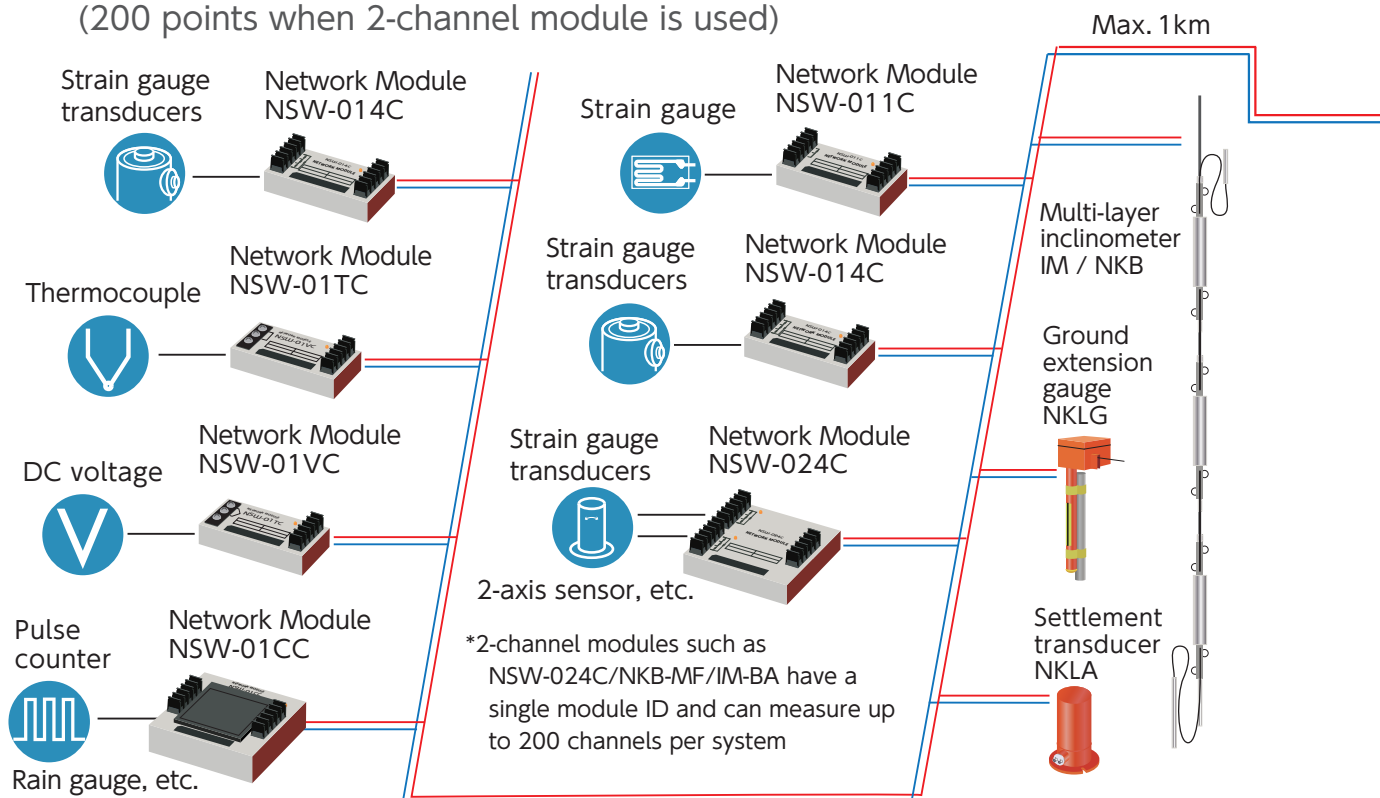
Point

T-ZACCS BOX AU-50 can be connected as an external switch box. Existing switch box ASW-50C/SSW-50D can also be connected!

# T-ZACCS 3 PORTABLE DATA LOGGER TS-360

## 1 TML-NET Measurement System (Measurement by TML-NET interface on AU-50MA)

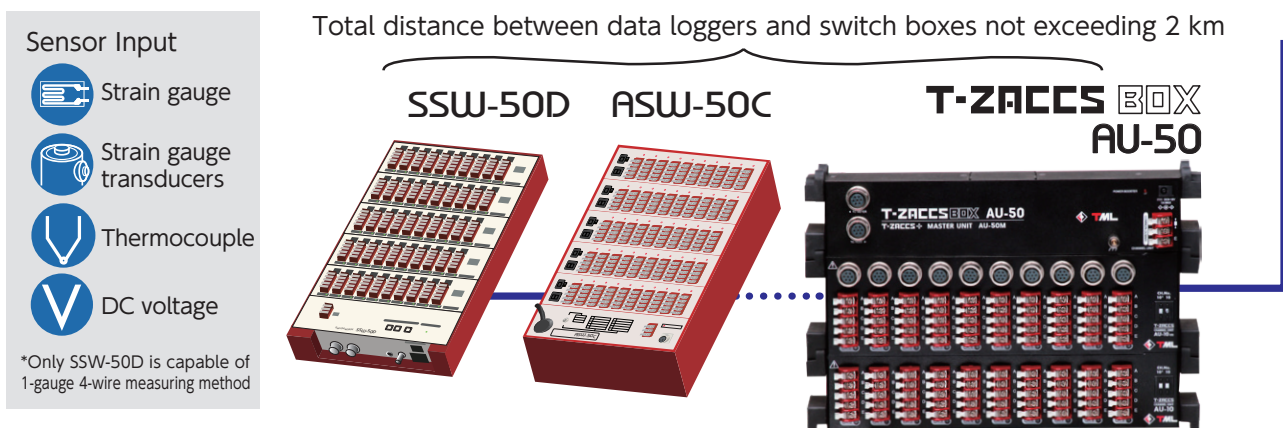
Measurements of 100 network modules are possible.  
(200 points when 2-channel module is used)



## 2 External Switching box measurement system

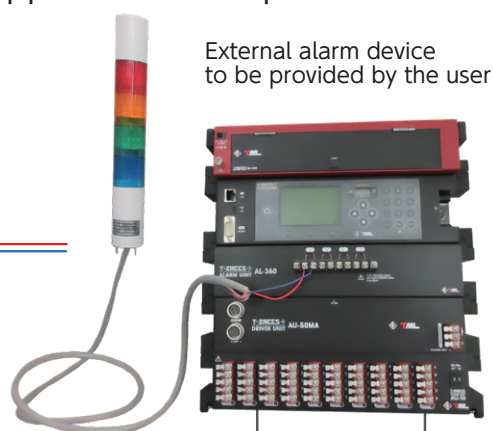
T-ZACCS BOX AU-50 and conventional switching boxes ASW-50C /SSW-50D can be used (can be mixed)!

Capable of measuring up to 1000 points.



# System Block Diagram/Related Products

## Application Example



LAN / USB  
RS-232C



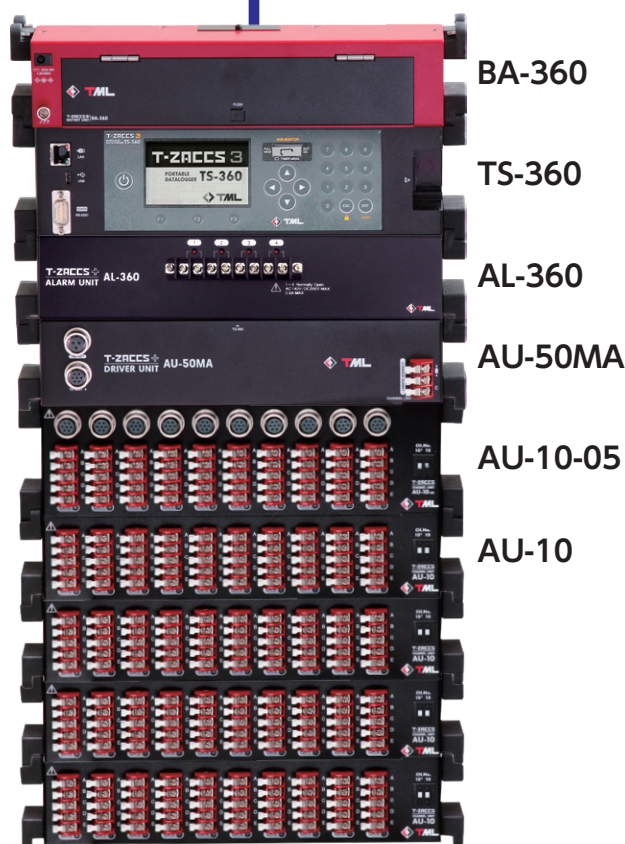
PC /  
Software



External Printer

**TML-NET**

**T-ZACCS 3**  
PORTABLE  
DATA LOGGER  
**TS-360**



\*Up to five AU-10/AU-10-05 units can be connected  
to one AU-50MA unit

**T-ZACCS 3**  
PORTABLE  
DATA LOGGER  
**TS-360**

TS-360

AU-50MA

AU-10-05

AU-10

**External Switching box**

# T-ZACCS 3 PORTABLE DATA LOGGER TS-360

## T-ZACCS 3

## Control unit TS-360



### Measuring capacity

|                              |                                 |                                                                                                                                                            |
|------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of measurement points |                                 | Up to 1000 points                                                                                                                                          |
| Measuring speed              | Scanning measurement            | 0.080 sec/point (50Hz)<br>0.067 sec/point (60Hz)                                                                                                           |
|                              | Monitor measurement             | 0.5 sec/point                                                                                                                                              |
| Measurement mode             |                                 | Initial, Direct, Major<br>(Temperature measurement is direct only)                                                                                         |
| Simple Measure               | Coefficient                     | 1                                                                                                                                                          |
|                              | Unit                            | Linked to sensor mode                                                                                                                                      |
|                              | Decimal point                   | Linked to sensor mode                                                                                                                                      |
| Comet setting                |                                 | Comet NON, Comet A, Comet B                                                                                                                                |
| Monitor                      | Display mode                    | OFF, numerical value, scan                                                                                                                                 |
|                              | Display channel                 | numeric representation 1 to 8 points<br>Scanning display 1 to 1000 points                                                                                  |
| measurement                  | Manual Measurement              | START key                                                                                                                                                  |
|                              | Automatic measurement interface | Interval measurement, Comparator measurement<br>LAN, USB, RS-232C                                                                                          |
| Channel setting              | Coefficient                     | ± (0.00000~200000)                                                                                                                                         |
|                              | Unit                            | με, mV, °C, kgf, mm etc.,                                                                                                                                  |
|                              | Decimal point                   | Decimal point display can be set to 0 to 5 optional digits                                                                                                 |
|                              | Offset                          | Writing for each arbitrary measurement channel                                                                                                             |
|                              | Sensor mode                     | Set the type of sensor to be connected                                                                                                                     |
|                              |                                 | Quarter bridge 3-wire 120/240/350Ω                                                                                                                         |
|                              |                                 | Quarter bridge 4-wire 120/240/350Ω                                                                                                                         |
|                              |                                 | Half bridge common dummy, Half bridge Full bridge, Full bridge constant current 350Ω                                                                       |
| Check function               | Voltage                         | 300mV, 30V                                                                                                                                                 |
|                              | Temperature                     | Thermocouple T, K, J, B, S, R, E, N                                                                                                                        |
|                              | During measurement              | Open check                                                                                                                                                 |
|                              | Sensor                          | Insulation check, sensitivity check, variation check, thermocouple disconnection check, lead wire resistance check, bridge output check, coefficient check |
| Display setting list         |                                 | Initial value, lead wire resistance                                                                                                                        |

\*Quarter bridge 4-wire is available only for SSW-50D. (As of February 2024)

### Interval measurement

|                 |                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Function        | Recording of measurement values at set time interval and time                                                                  |
| Time interval   | Hours, minutes, seconds, up to 99 hours 59 minutes 59 seconds<br>Can be set for each step                                      |
| Real time start | Start time (hour, minute, seconds) can be set for each step                                                                    |
| Number of start | Up to 9999 times per step or infinite                                                                                          |
| Number of steps | Programmable up to 10 steps                                                                                                    |
| GOTO step       | Program loop possible to one of the previous steps                                                                             |
| GOTO comparator | Go to step 1 of the comparator                                                                                                 |
| Sleep function  | Automatically turns power on and off at intervals of 1 minute or more between the end of a scan and the start of the next scan |

### Comparator measurement

|                    |                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------|
| Function           | Automatic measurement by the amount of change in the setting of any channel (one point) |
| Comparative amount | Up to ±9999999 settable per step                                                        |
| Comparison method  | Upper/lower limits, relative values                                                     |
| Number of start    | Up to 9999 times per step or infinite                                                   |
| Number of steps    | Programmable up to 10 steps                                                             |
| GOTO step          | Program loop possible to one of the previous steps                                      |
| GOTO interval      | Go to step 1 of the interval                                                            |

### Time

|           |                                         |
|-----------|-----------------------------------------|
| Setting   | Year, month, day, hour, minute, seconds |
| Accuracy  | Daily error: ± 1 seconds (@23°C ± 5°C)  |
| Retention | Approx. 30 days (with full charge)      |

### Display and Operation

|           |              |                                            |                                                    |
|-----------|--------------|--------------------------------------------|----------------------------------------------------|
| Display   | Display unit | LCD panel                                  | 3.0 semi-transmissive monochrome STN LED backlight |
|           |              | Resolution                                 | 255×160 dots                                       |
|           |              | Point defect                               | 10 dots or less (excluding aging deterioration)    |
| Operation |              | POWER, START, ESC, ENT, 0 to 9, F1, F2, F3 |                                                    |

### Recording

|          |                  |                                                                                |
|----------|------------------|--------------------------------------------------------------------------------|
| Built-in | Function         | Recording and reproduction of measurement data<br>Saving of setting file       |
|          | Recording format | CSV format, TDS format                                                         |
|          | Capacity         | 16 GB                                                                          |
| SD card  | Function         | Recording, reproduction, copying of measurement data<br>Saving of setting file |
|          | Physical format  | FAT32                                                                          |
|          | Recording format | CSV format, TDS format                                                         |
|          | Capacity         | 16 GB (Designated by us)                                                       |

### Interface

|         |                                                                                                                         |
|---------|-------------------------------------------------------------------------------------------------------------------------|
| LAN     | 10BASE-T/100BASE-TX<br>General-purpose command port server function<br>(various settings, measurement, data collection) |
| USB     | USB 2.0 protocol compatible<br>Various settings, measurements, data collection                                          |
| RS-232C | RS-232C compliant<br>Baud rate 9600, 38400, 115200 bps<br>Various settings, measurements, data collection               |

### Power supply

|                      |                |
|----------------------|----------------|
| Power supply voltage | DC9~18V50/60Hz |
|----------------------|----------------|

### Environment

|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| Operating temperature/humidity range | -10~+50°C 85%RH or less (No condensation) |
|--------------------------------------|-------------------------------------------|

### Others

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| External dimensions | 280 (W) × 45 (H) × 80 (D) mm<br>(Excluding rubber protectors and protrusions) |
| weight              | Approx. 800g                                                                  |

### Standard accessories

|                                                 |        |
|-------------------------------------------------|--------|
| instruction manual for standard accessories(CD) | 1      |
| SD card                                         | 1      |
| Phillips screwdriver                            | 1      |
| Warranty card                                   | 1 copy |

### Options

|                  |                               |
|------------------|-------------------------------|
| SD card          | 16 GB (Designated by us)      |
| AC adapter       | CR-1867                       |
| RS-232C Cable    | CR-5360                       |
| USB cable        | Type C USB Cable              |
| External Printer | DPU-S245 (RS-232C connection) |

# Specification

## T-ZACCS+

## Driver unit AU-50MA



### Measurement capability

|                                       |                                                                  |                                                                                                                                         |
|---------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Number of measurement points          | When using box connection                                        | Up to 1000 points                                                                                                                       |
|                                       | When using box connection and built-in measurement unit together |                                                                                                                                         |
|                                       | Channel unit connection                                          |                                                                                                                                         |
| Data update cycle                     |                                                                  | 0.080 sec/point (50Hz)<br>0.067 sec/point (60Hz)                                                                                        |
| Measurement Mode                      |                                                                  | Direct                                                                                                                                  |
| Strain measurement                    | Applicable wiring methods, gauge resistance                      | Quarter bridge 3-wire 120/240/350Ω                                                                                                      |
|                                       |                                                                  | Half bridge 120~1000Ω                                                                                                                   |
|                                       |                                                                  | Half bridge common dummy 120~1000Ω                                                                                                      |
|                                       |                                                                  | Full bridge 120~1000Ω                                                                                                                   |
|                                       |                                                                  | Full bridge constant current 350Ω                                                                                                       |
|                                       | Sensor cable extension range                                     | Full bridge constant current 350Ω Total cable resistance: 400 Ω or less                                                                 |
|                                       | Sensitivity change                                               | Full bridge constant current 350Ω +0.1% to -0.5% for total cable resistance 100 Ω                                                       |
|                                       | Lead wire resistance compensation range CometB(1G3W)             | Gauge resistance 120Ω : About 100Ω or less<br>Gauge resistance 240Ω : About 200Ω or less<br>Gauge resistance 350Ω : About 300Ω or less  |
|                                       | Zero stability                                                   | ±1.0×10 <sup>-6</sup> strain/°C or less (quarter bridge)<br>±0.5×10 <sup>-6</sup> strain/°C or less (half bridge)                       |
|                                       | Initial unbalance                                                | ±750×10 <sup>-6</sup> strain or less (quarter bridge 3-wire)<br>±500×10 <sup>-6</sup> strain or less (half bridge)                      |
| DC voltage measurement                | Input impedance                                                  | 1MΩ or more                                                                                                                             |
|                                       | Allowable input voltage between B and D                          | DC±50V MAX                                                                                                                              |
| Thermocouple temperature measurements |                                                                  | T, K, J, B, S, R, E, N<br>JIS C1602:2015 IEC60584-1:2013                                                                                |
| Check function                        | During measurement                                               | Open check                                                                                                                              |
|                                       | sensor                                                           | Insulation check, sensitivity check, variation check, thermocouple disconnection check, lead wire resistance check, bridge output check |

### Strain measurement

|                                                       |                                 |                            |
|-------------------------------------------------------|---------------------------------|----------------------------|
| Bridge power supply                                   | DC2V 24ms(50Hz)                 |                            |
| Initial value storage range                           | ±160000×10 <sup>-6</sup> strain |                            |
| Temperature coefficient of accuracy                   | ±0.002% rdg/°C                  |                            |
| Aging change of accuracy                              | ±0.02% rdg/year                 |                            |
| Measuring range and resolution                        | Measuring range                 | Resolution                 |
|                                                       | ± 30000×10 <sup>-6</sup> strain | 1×10 <sup>-6</sup> strain  |
|                                                       | ±300000×10 <sup>-6</sup> strain | 10×10 <sup>-6</sup> strain |
| Accuracy(@23°C±5°C)<br>(Except quarter bridge 4-wire) | ±(0.08%rdg+1 digit)             |                            |
| Accuracy(@23°C±5°C)<br>Quarter bridge 4-wire          | ±(0.28%rdg+1 digit)             |                            |

### Constant current strain measurement(Full bridge)

|                                     |                                 |                            |
|-------------------------------------|---------------------------------|----------------------------|
| Bridge Power Supply                 | DC6mA 24ms(50Hz)                |                            |
| Bridge resistance                   | 350Ω                            |                            |
| Initial value storage range         | ±160000×10 <sup>-6</sup> strain |                            |
| Temperature coefficient of accuracy | ±0.002%rdg/°C                   |                            |
| Aging change of accuracy            | ±0.02%rdg/year                  |                            |
| Measuring range and resolution      | Measuring range                 | Resolution                 |
|                                     | ± 30000×10 <sup>-6</sup> strain | 1×10 <sup>-6</sup> strain  |
|                                     | ±300000×10 <sup>-6</sup> strain | 10×10 <sup>-6</sup> strain |
| Accuracy (@23°C±5°C)                | ±(0.08%rdg+3digit)              |                            |

### DC voltage measurement

|                                     |                 |                            |
|-------------------------------------|-----------------|----------------------------|
| Initial value storage range         |                 |                            |
| V1/1                                | ±160.000mV      |                            |
| V1/100                              | ±16.0000V       |                            |
| Temperature coefficient of accuracy | ±0.0024%rdg/°C  |                            |
| Aging change of accuracy            | ±0.024%rdg/year |                            |
| Measuring range and resolution      | V1/1            | Measuring range Resolution |
|                                     |                 | ± 30.000mV 0.001mV         |
|                                     | V1/100          | ±300.000mV 0.010mV         |
|                                     |                 | ± 3.0000V 0.0001V          |
| Accuracy (@23°C±5°C)                | V1/1            | ±(0.08%rdg+3digit)         |
|                                     | V1/100          | ±(0.08%rdg+2digit)         |

### Thermocouple measurement accuracy

| Type | Measuring range | Resolution | Accuracy (@23°C±5°C)        |                             |
|------|-----------------|------------|-----------------------------|-----------------------------|
|      |                 |            | External reference junction | Internal reference junction |
| T    | -250~-200°C     | 0.1°C      | ±(0.38%rdg+0.6°C)           | ±(0.38%rdg+3.9°C)           |
|      | -200~-100°C     | 0.1°C      | ±(0.15%rdg+0.2°C)           | ±(0.15%rdg+1.4°C)           |
|      | -100~-+400°C    | 0.1°C      | ±(0.10%rdg+0.2°C)           | ±(0.10%rdg+0.8°C)           |
| K    | -210~-160°C     | 0.1°C      | ±(0.19%rdg+0.3°C)           | ±(0.19%rdg+1.6°C)           |
|      | -160~0°C        | 0.1°C      | ±(0.12%rdg+0.2°C)           | ±(0.12%rdg+1.0°C)           |
|      | 0~+960°C        | 0.1°C      | ±(0.08%rdg+0.1°C)           | ±(0.08%rdg+0.5°C)           |
| J    | +960~+1370°C    | 0.1°C      | ±(0.10%rdg+0.9°C)           | ±(0.10%rdg+1.4°C)           |
|      | -200~-160°C     | 0.1°C      | ±(0.16%rdg+0.2°C)           | ±(0.16%rdg+1.2°C)           |
|      | -160~0°C        | 0.1°C      | ±(0.12%rdg+0.1°C)           | ±(0.12%rdg+0.8°C)           |
| B    | 0~+700°C        | 0.1°C      | ±(0.08%rdg+0.1°C)           | ±(0.08%rdg+0.5°C)           |
|      | +700~+1200°C    | 0.1°C      | ±(0.08%rdg+0.6°C)           | ±(0.08%rdg+0.9°C)           |
|      | +200~+280°C     | 0.5~0.4°C  | ±(0.04%rdg+4.0°C)           | ±(0.04%rdg+4.0°C)           |
| S    | +280~+800°C     | 0.3~0.1°C  | ±(0.04%rdg+1.2°C)           | ±(0.04%rdg+1.2°C)           |
|      | +800~+1760°C    | 0.1°C      | ±(0.05%rdg+0.4°C)           | ±(0.05%rdg+0.4°C)           |
|      | -10~+200°C      | 0.1°C      | ±(0.09%rdg+0.6°C)           | ±(0.09%rdg+1.2°C)           |
| R    | +200~+1760°C    | 0.1°C      | ±(0.07%rdg+0.4°C)           | ±(0.07%rdg+0.7°C)           |
|      | -10~+150°C      | 0.1°C      | ±(0.09%rdg+0.7°C)           | ±(0.09%rdg+1.2°C)           |
|      | +150~+1760°C    | 0.1°C      | ±(0.07%rdg+0.4°C)           | ±(0.07%rdg+0.7°C)           |
| E    | -210~+550°C     | 0.1°C      | ±(0.17%rdg+0.2°C)           | ±(0.17%rdg+1.4°C)           |
|      | +550~+1000°C    | 0.1°C      | ±(0.09%rdg+0.4°C)           | ±(0.09%rdg+0.8°C)           |
|      | -200~0°C        | 0.1°C      | ±(0.18%rdg+0.4°C)           | ±(0.18%rdg+1.6°C)           |
| N    | 0~+1090°C       | 0.1°C      | ±(0.08%rdg+0.2°C)           | ±(0.08%rdg+0.6°C)           |
|      | +1090~+1300°C   | 0.1°C      | ±(0.08%rdg+0.9°C)           | ±(0.08%rdg+1.2°C)           |

\*The accuracy of sensor is not included, and thermocouple B does not use a reference junction

### Switching box drive unit

|                        |                         |                                                                    |
|------------------------|-------------------------|--------------------------------------------------------------------|
| Compatible model       |                         | SSW-50D, ASW-50C<br>AU-50M                                         |
| No. of units connected | Without booster power   | 8 units connected, 400 points                                      |
|                        | Booster power available | 20 units connected, 1000 points                                    |
| Extension distance     | Without booster power   | 120m                                                               |
|                        | Booster power available | 2km                                                                |
| Connection cable       |                         | Switch box cable (CR-65) or switching box extension cable (CR-800) |

|                        |                      |                                           |
|------------------------|----------------------|-------------------------------------------|
| Compatible model       |                      | NSW series/TML-NET compatible transducers |
| No. of units connected | Low consumption type | Up to 100 units                           |
|                        | Existing type        | Up to 20 units (150m or less)             |
| Extension distance     | Low consumption type | 2km                                       |
|                        | Existing type        | Within 1 km (10 units or less)            |
| Connection cable       |                      | Dedicated 2-conductor shielded cable      |

### Channel unit connection

|                        |                                         |
|------------------------|-----------------------------------------|
| Compatible model       | AU-10/AU-10-05                          |
| No. of units connected | Up to 5 units                           |
| Connectors             | Dedicated connector for unit connection |

### Power

|              |                    |
|--------------|--------------------|
| Supply power | Supplied by TS-360 |
|--------------|--------------------|

### Environment

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| Operating temperature/humidity range | -10~+50°C 85% RH or less (excluding condensation) |
|--------------------------------------|---------------------------------------------------|

### Other

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| External dimensions | 280(W)×45(H)×60(D) mm<br>(Excluding rubber protectors and protrusions) |
| Weight              | Approx. 800g                                                           |

### Standard accessories

|               |        |
|---------------|--------|
| Warranty card | 1 copy |
|---------------|--------|

# T-ZACCS 3 Specification

## T-ZACCS+

### Battery unit BA-360



|                                      |                                                                                                                       |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Function                             | Ability to run TS-360 on a single battery                                                                             |
| Batteries                            | 4 single alkaline dry cells                                                                                           |
| Usable time                          | Continuous usage : Approx. 40 hours<br>At 1-hour interval : Approx. 8 months<br>(10 channels, scan, sleep on, 23±5°C) |
| Operating temperature/humidity range | -10~+50°C 85% RH or less (excluding condensation)                                                                     |
| External dimensions                  | 280(W)×60(H)×60(D)mm<br>(Excluding rubber protector and projection)                                                   |
| Weight                               | Approx. 1.2 kg (including 4 single dry cells)                                                                         |
| Standard accessories                 | Single alkaline dry cell 4<br>Warranty card 1 copy                                                                    |

## T-ZACCS+

### Alarm unit AL-360



|                                          |                                                                                                                                                                       |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of contact points                 | 4                                                                                                                                                                     |
| Contact point                            | Semiconductor relay (a-contact: normally open)<br>Contact capacity 140V AC / 200V DC MAX<br>Rated current 0.6A MAX<br>Inrush current 1.8A MAX<br>ON resistance 2Ω MAX |
| Display                                  | Status LED<br>Lights up when each contact is closed                                                                                                                   |
| Comparison method                        | Relative value, upper/lower bounds                                                                                                                                    |
| Number of setting tables                 | 1000                                                                                                                                                                  |
| Other Function                           | Alarm test                                                                                                                                                            |
| Power                                    | Supplied via TS-360                                                                                                                                                   |
| Operating temperature and humidity range | -10 to +50° C<br>85%RH or less (excluding condensation)                                                                                                               |
| External dimensions                      | 280(W)×45(H)×60(D)mm<br>(excluding rubber protectors and protrusions)                                                                                                 |
| Weight                                   | Approx. 600g                                                                                                                                                          |

### Protective Cover TS-360 Upper Cover



Protective cover for easy installation and removal.  
Type name : TS-360-F60 (for AU-10)  
TS-360-F80 (for AU-10-05)  
Main unit TS-360 and  
channel unit AU-10/-10-05

## Expandable by unit! 「T-ZACCS BOX AU-50」

The AU-50 consists of a master unit and a channel unit.

It can be used with TS-360, TDS-540, etc. and can be mixed with conventional switchboxes ASW-50C/SSW-50D.

## T-ZACCS+

### Master unit AU-50M

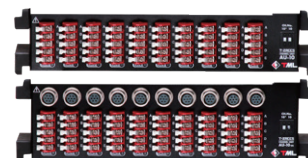


1 to 5 channel units  
can be added to the  
Master unit



## T-ZACCS UNIT

### Channel unit AU-10/AU-10-05



|                                      |                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------|
| Number of measuring point            | 10                                                                                                         |
| input terminal                       | Dual-use screw and solder type                                                                             |
| One-touch connector                  | NDIS One-touch connector(AU-10-05 only)                                                                    |
| Measuring capacity                   | Equivalent to AU-50MA/AU-50M                                                                               |
| Supply power                         | Supplied by AU-50MA/AU-50M                                                                                 |
| Operating temperature/humidity range | -10~+50°C 85% RH or less (excluding condensation)                                                          |
| External dimensions                  | AU-10 280(W)×45(H)×60(D)mm<br>AU-10-05 280(W)×45(H)×80(D)mm<br>(Excluding rubber protector and projection) |
| Weight                               | AU-10 Approx. 900g<br>AU-10-05 Approx. 1.2kg                                                               |
| Standard accessories                 | Warranty card 1 copy                                                                                       |

The contents of this catalog are subject to change without prior notice.  
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Approval Certificate ISO9001  
Design and manufacture of  
strain gauges, strain measuring  
equipment and transducers



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