

## 442B

### Wrist Strap



- This antistatic wrist strap prevents the human body from becoming charged with static electricity.
- The stretchable band is easy to adjust.
- A conductive thread is used for the band lining.

#### Specifications

| Part No.       | 442B-01 | 442B-02 | 442B-04     | 442B-05 | 442B-06 | 442B-07 |
|----------------|---------|---------|-------------|---------|---------|---------|
| Color          | Blue    |         | Light green |         | Gray    |         |
| Grounding wire | 1.5 m   | 2.5 m   | 1.5 m       | 2.5 m   | 1.5 m   | 2.5 m   |

## FG-470

### Wrist Strap Tester



- Easy-to-use, quick-response tester for wrist straps
- A user-friendly pad secures pass/fail judgement on a wrist strap.
- Highly visible LED lamps and buzzer will indicate test result.

\* Buzzer sounds only for "PASS".

#### Features

#### Connection patterns to choose depending on wrist straps

\* Banana plug and grounding wire are included in FG-470.



#### Dedicated holder included

A mounting holder can make it easy to plug and unplug even with one hand. No tool is required to remove a unit. A unit can be portable off the holder.



\* Example of installation



\* 4 Wood screws provided

#### Packing List

|        |   |
|--------|---|
| FG-470 | Unit, 006P 9 V dry battery (for trial), Grounding wire, Banana plug, Mounting holder, Wood screws (qty 4), Instruction manual |
|--------|---|

#### Specifications

| Model No.               | FG-470   |   |
|-------------------------|--|---|
| Power supply            | 006P 9 V dry battery (alkaline cell recommended)                                 |   |
| Indication              | LOW  | $R < 800 \text{ k}\Omega$                           |
|                         | PASS   | $800 \text{ k}\Omega \leq R \leq 9 \text{ M}\Omega$ |
|                         | HIGH   | $R > 9 \text{ M}\Omega$                             |
| Judgment level accuracy | 800 k $\Omega$   | + 10% / - 0%  |
|                         | 9 M $\Omega$   | + 0% / - 10%  |
| Battery life            | Approx. 50,000 times (9 V alkaline)  |   |
| Grounding wire          | 1 m  |   |
| Operating environment   | Ambient temperature/Humidity range: 0 to 40°C, max.80% RH (without condensation) |   |
| External dimensions     | 85 (W) × 44 (H) × 90 (D) mm  |   |
|                         | With mounting holder   |   |
| Weight*                 | 120 g  |   |
|                         | With mounting holder   |   |
|                         | 160 g  |   |

\* Without battery

## FG-465 New

### Footwear Tester



- Saves measurement data automatically
- Meets the requirement of JIS T 8103 : 2010
- Personal information can be registered in ID

### Specifications

|                                  |                        |  |
|----------------------------------|------------------------|--|
| <b>Model No.</b>                 |                        | FG-465   |
| <b>Rating</b>                    |                        | 24 VDC 50 mA   |
| <b>Measurement voltage</b>       |                        | 20 VDC   |
| <b>Measurement range</b>         | Upper evaluation limit | 1000 MΩ (1×10 <sup>9</sup> Ω)  |
|                                  |                        | 100 MΩ (1×10 <sup>8</sup> Ω)   |
|                                  |                        | 10 MΩ (1×10 <sup>7</sup> Ω)  |
|                                  | Lower evaluation limit | 1 MΩ (1×10 <sup>6</sup> Ω)   |
|                                  |                        | 0.1 MΩ (1×10 <sup>5</sup> Ω)   |
|                                  |                        | R < 0.1 MΩ (1×10 <sup>5</sup> Ω)   |
| Conductivity evaluation          |                        | R < 0.1 MΩ (1×10 <sup>5</sup> Ω)   |
| <b>Evaluation level accuracy</b> | R < 0.1 MΩ             | ± 5%   |
|                                  | 0.1 MΩ ≤ R ≤ 100 MΩ    | ± 10%  |
|                                  | 100 MΩ < R             | ± 8%   |
| <b>Operating environment</b>     |                        | Ambient temperature/Humidity range: 0 to 40°C, max.80% RH (without condensation) |
| <b>Environment condition</b>     |                        | Applicable rated pollution degree 2 (according to IEC / UL61010-1)               |
| <b>Dimensions</b>                |                        | 120 (W) × 30 (H) × 185 (D) mm  |
| <b>Weight*</b>                   |                        | 0.55 kg  |

### Test plate

|                     |                               |
|---------------------|-------------------------------|
| <b>Cord length</b>  | 1.6 m                         |
| <b>Dimensions**</b> | 300 (W) × 30 (H) × 300 (D) mm |
| <b>Weight**</b>     | 1.9 kg                        |

### AC adapter

|                       |        |
|-----------------------|--------|
| <b>Output voltage</b> | 24 VDC |
|-----------------------|--------|

\* Including mounting base

\*\* Without cord

### Packing List

|               |   |
|---------------|---|
| <b>FG-465</b> | Unit, Test plate, Mounting base, Knob (qty 2), Wood screw (qty 2), Pan head screw (qty 2), AC adapter*, USB cable, Instruction manual |
|---------------|---|

\* AC adapter may not be included depending on the specifications.

### Option

| Part No. | Name                  |
|----------|-----------------------|
| C5032    | Stand                 |
| B5263    | Unit integration base |

### Stand

No.C5032



### Unit integration base (Connecting cable included)

No.B5263



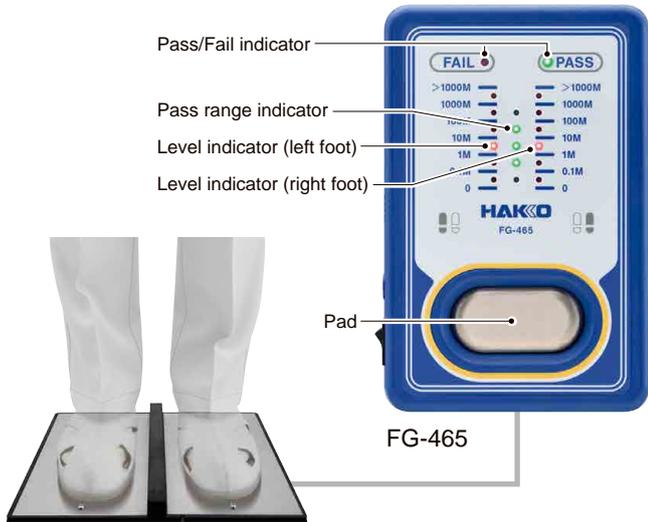
An option part to integrate FG-465 and FG-470 is available.

# Footwear Tester

## Features

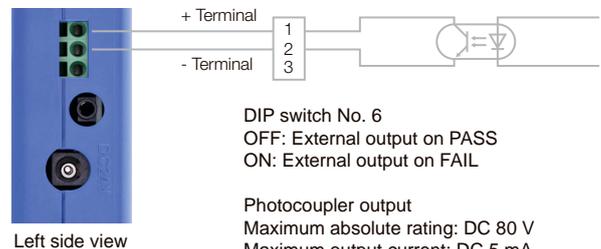
### Dual foot plate

FG-465 measures anti-static performance of footwear on both feet but individually, and shows the results for each foot.



### Evaluation external output

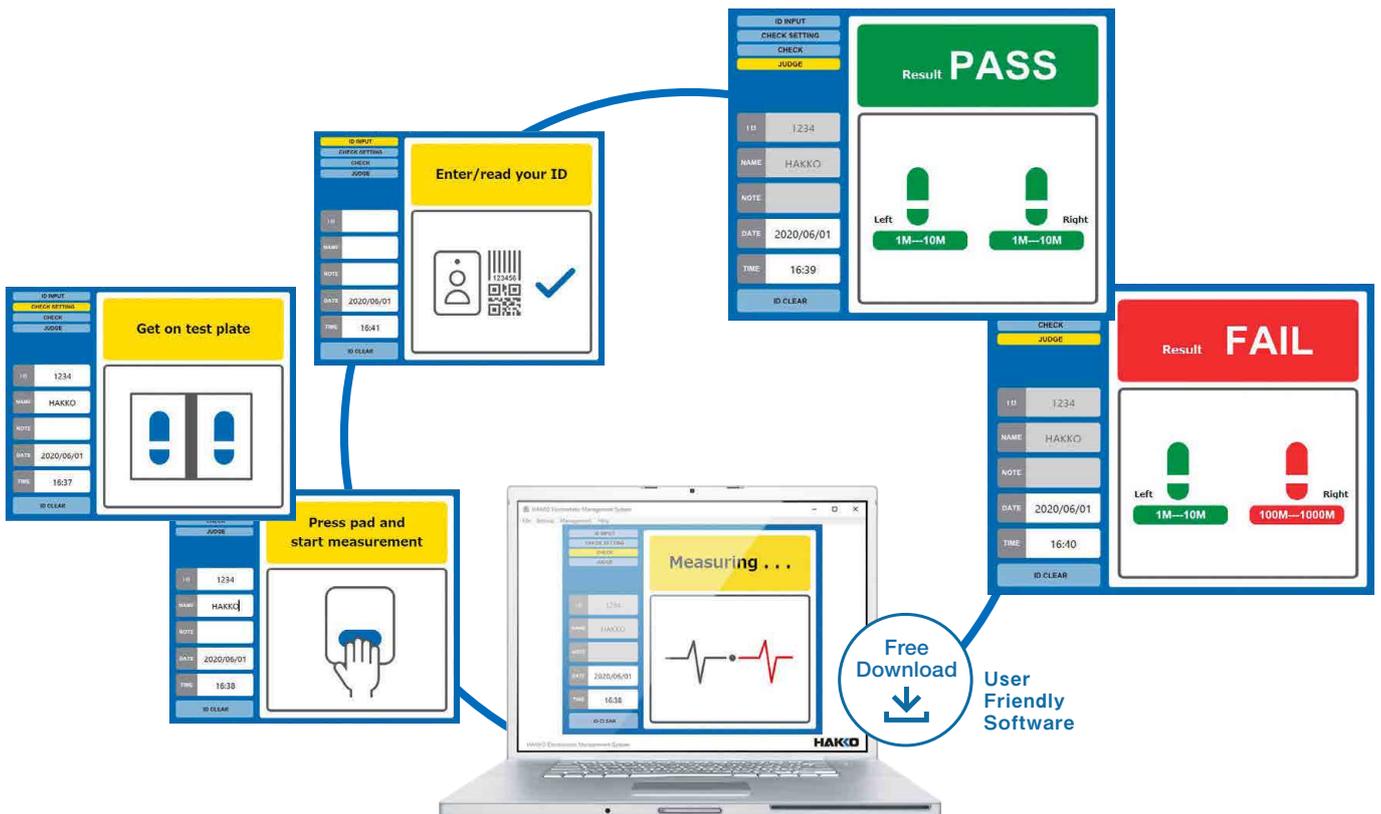
Evaluation results can be output through the external output terminal to interlock with other devices, to open a door, turn on a signal, etc.



### User-friendly software

The dedicated software makes it easy to check measurement status of FG-465. The software enables digital management of all the related measurement information including operator IDs.

\*The registrations on our website are necessary to download the software.

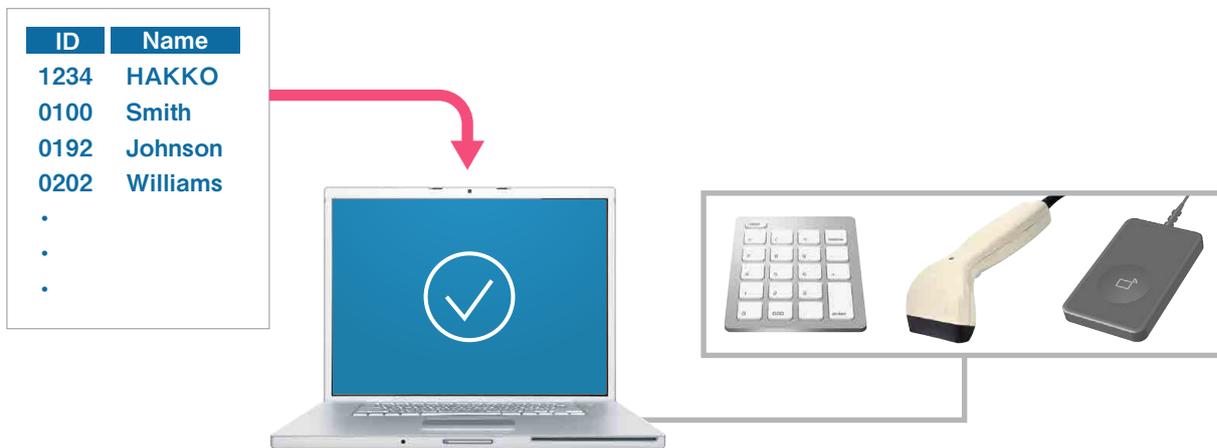


## Features

### ID Management

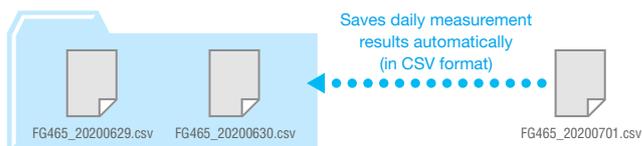
IDs can be input by entering numeric values, reading barcode or IC card.

Personal information can be registered in ID and operator IDs can be recorded as a part of measurement information.



### Improved traceability

The measurement information can be automatically saved as a digital data in a specified folder. The information consists of measurement date, time, operator ID, and result of each foot to improve traceability.



|   | A        | B    | C   | D        | E        | F           | G           | H          | I          | J           | K         | L         | M         | N         | O         | P      |
|---|----------|------|-----|----------|----------|-------------|-------------|------------|------------|-------------|-----------|-----------|-----------|-----------|-----------|--------|
| 1 | Date     | Time | ID  | Name     | Comprehe | Left foot ( | Left foot ( | Right foot | Right foot | Wrist strap | Conductiv | Lower eva | Upper eva | Evaluator | Evaluator | FG-470 |
| 2 | 2020/7/1 | 8:47 | 400 | Smith    | PASS     | 10M-100M    | PASS        | 1M-10M     | PASS       | ----        | OFF       | 0.1M      | 100M      | PASS      | PASS      | YES    |
| 3 | 2020/7/1 | 8:47 | 100 | Jonson   | PASS     | 10M-100M    | PASS        | 10M-100M   | PASS       | ----        | OFF       | 0.1M      | 100M      | PASS      | PASS      | YES    |
| 4 | 2020/7/1 | 8:47 | 192 | Williams | PASS     | 10M-100M    | PASS        | 10M-100M   | PASS       | ----        | OFF       | 0.1M      | 100M      | PASS      | PASS      | YES    |
| 5 | 2020/7/1 | 8:48 | 202 | Jones    | FAIL     | 10M-100M    | PASS        | 100M-100   | PASS       | ----        | OFF       | 0.1M      | 100M      | PASS      | PASS      | YES    |
| 6 | 2020/7/1 | 8:49 | 410 | Brown    | FAIL     | 100M-100    | FAIL        | 1M-10M     | PASS       | ----        | OFF       | 0.1M      | 100M      | PASS      | PASS      | YES    |
| 7 | 2020/7/1 | 8:49 | 301 | Davis    | PASS     | 10M-100M    | PASS        | 0.1M-1M    | PASS       | ----        | OFF       | 0.1M      | 100M      | PASS      | PASS      | YES    |
| 8 | 2020/7/1 | 8:49 | 937 | Miller   | PASS     | 10M-100M    | PASS        |            |            |             |           |           |           |           |           |        |

### Works as a combo tester

FG-465 can work as a combo tester with FG-470, a wrist strap tester, that makes it possible to conduct measurement, evaluation and recording of both footwear and wrist strap at once.

\* Connecting cable (B5264) or Unit integration base (B5263), sold separately, is required.

