FN-1010 and FG-100B equipped with communication function. Pioneer the future of soldering with advanced IoT technology.
**FN-1010**

**IoT capable soldering station**
FN-1010 can control tip temperature more strictly and precisely. It also can collect and visualize the information of manual soldering.

**FH-210**

**User-friendly iron holder with safety design**
- Tip cleaner that prevents solder balls
- Tip replacement without heat resistant pad

**FG-100B**

**Thermometer**
It will automatically notify the completion of measurement. It can minimize individual differences in the measurement process.

**FN-1101**

**T36 series soldering tip equipped with memory chip and soldering iron equipped with motion sensor**
The memory chip can collect and record information of manual soldering in real time. The motion sensor detects when an iron is dropped and cuts the power for safety purposes.
### Traceability implementation in manual soldering

**Take complete control of soldering conditions**

#### Human error free temperature control

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Result</th>
<th>Before Temp</th>
<th>After Temp</th>
<th>Before Offset</th>
<th>After Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/5/16 10:28</td>
<td>PASS</td>
<td>0352°C</td>
<td></td>
<td>000°C</td>
<td></td>
</tr>
<tr>
<td>01/5/16 10:29</td>
<td>PASS</td>
<td>0346°C</td>
<td></td>
<td>000°C</td>
<td></td>
</tr>
<tr>
<td>01/5/16 10:41</td>
<td>PASS</td>
<td>0347°C</td>
<td></td>
<td>000°C</td>
<td></td>
</tr>
<tr>
<td>01/5/16 10:43</td>
<td>PASS</td>
<td>0344°C</td>
<td>0350°C</td>
<td>000°C</td>
<td>000°C</td>
</tr>
</tbody>
</table>

### Measure tip temperature

Tip temperature measurement can be completed automatically by using AUTO HOLD or MAX HOLD function of FG-1001L.

### Collect information of manual soldering

- Tip shape
- Serial number
- Number of loads
- Total time of power supplied
- Load sensitivity
- Type of solder alloy (Lead-Free/Lead)
- Count alarm

### Collect and save information in real time

Digitize energy supplied from soldering tip during soldering operation.

### Automatically record results of temperature measurement, calibration and off-set

When measurement result falls in the range, it will be recorded as "PASS". The measurement result along with off-set value will be also recorded.

### Visualize and control soldering process

It is now possible to visualize and control invisible factors of soldering. Collected information can be utilized to optimize soldering conditions.
**T36 series**  soldering tip equipped with memory chip

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**FN-1010**

- **Packaging List**
  - Station: FN-1010
  - Iron holder FN-210
  - Tip cleaner T-40B (with cleaning wire)
  - Power cord
  - Instruction manual

**Specifications**

- **Model No.** FN-1010
- **Power consumption** 100 W
- **Temperature range** 50 to 450°C
- **Temperature stability** ±3°C at idle temperature

**Station**

- **Output voltage** AC 21V
- **Dimensions** 106 (W) x 138 (H) x 152 (D) mm
- **Weight** 1.2 kg

**Soldering Iron**

- **Power consumption** 35 W (21 V)
- **Heating element** Composite heater
- **Cord length** 1.2 m
- **Total length** 180 mm (with 2.4D tip)
- **Weight** 32 g (with 2.4D tip)

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**FG-100B**

- **Thermometer with Auto-measurement Function**
  - **Features**:
    - 100°F Dry battery (for 30 min)
    - Sensor (type K)
    - Instruction manual

**Specifications**

- **Model No.** FG-100B
- **Power supply** 006V 9V dry battery (alkaline cell recommended)
- **Temperature resolution** 1°C
- **Temperature measurement range** 0 to 700°C
- **Temperature range** 13°C (300 to 600°C), ±5°C (in other ranges)
- **Temperature sensor** K (CA) type thermocouple
- **Display** LCD: 5 1/2 digits
- **Operating environment** Ambient temperature/humidity range 0 to 40°C, 20 to 90%RH (without condensation)
- **Environmental conditions** Applicable to withstand pollution degree 2 (according to IEC/UL 61010-1)
- **Dimensions** 64 (W) x 140 (H) x 38 (D) mm
- **Weight** 125 g

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**Nozzle assemblies for Ns Soldering Iron**

Nozzle assemblies make the optional iron FN-1102 capable with Ns System.

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**Ns System**

Heated Ns gas discharged from the tip end produces three effects. As a result, solderability increases, which allows you to enjoy the following advantages.

- Compatible with no-clean soldering (non-activity flux)
- Reduces soldering time
- Reduces tip oxidation
- Solves the insufficient heat supply problems which may occur during soldering of multilayer boards
- Relieves loads applied to heat-sensitive parts
- Reduces cracking of multilayer ceramic capacitors by thermal shock

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**Option**

Ns Soldering Iron FN-1102

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**Interface Card**

- [USB type, with cable](No. B9210)
- [RS232C type, with cable](No. B9211)
- [LAN type](No. B9212)