

# HAKKO FG-102

THERMOMETER

## An Innovation in Tip Temperature Control

### FG-102

#### Packing List



Unit, Battery (qty 6, for trial), Barcode reader, USB cable, Software (CD-ROM), Sensor (qty 10), Barcode sticker for soldering iron ID (qty 30), Barcode sticker for operator ID (qty 30), Instruction manual

\* Pre-calibrated product comes with a calibration certificate, test result report, and traceability matrix. Sensors also come with calibration certificates.

#### Specifications

Power supply	AA battery (LR6 1.5V) (alkaline batteries are recommended)
Temperature resolution	1°C
Temperature measurement range	0 to 700°C
Temperature precision	±3°C (300 to 600°C) ±5°C (other than above)
Temperature sensor	K (CA) type thermocouple
Display	LCD display
Operating environment	0 to 40°C, 20 to 90% RH (without condensation)
Environmental conditions	Applicable rated pollution degree 2 (according to IEC/UL 61010-1)
Dimensions	193 (W)×90 (H)×219 (D)mm (without bar code reader)
Weight	0,93 kg (without batteries, bar code reader)

\* Temperature sensor (Part No.191-212 and 212C) can only be used to measure temperatures below 500°C.  
To measure higher temperatures, use an applicable temperature probe.

#### Options

\* Traceability management function can only be used for soldering irons.



Temperature probe for  
soldering bath and pot  
Part No. A1310



Temperature probe for  
hot air  
Part No. C1541

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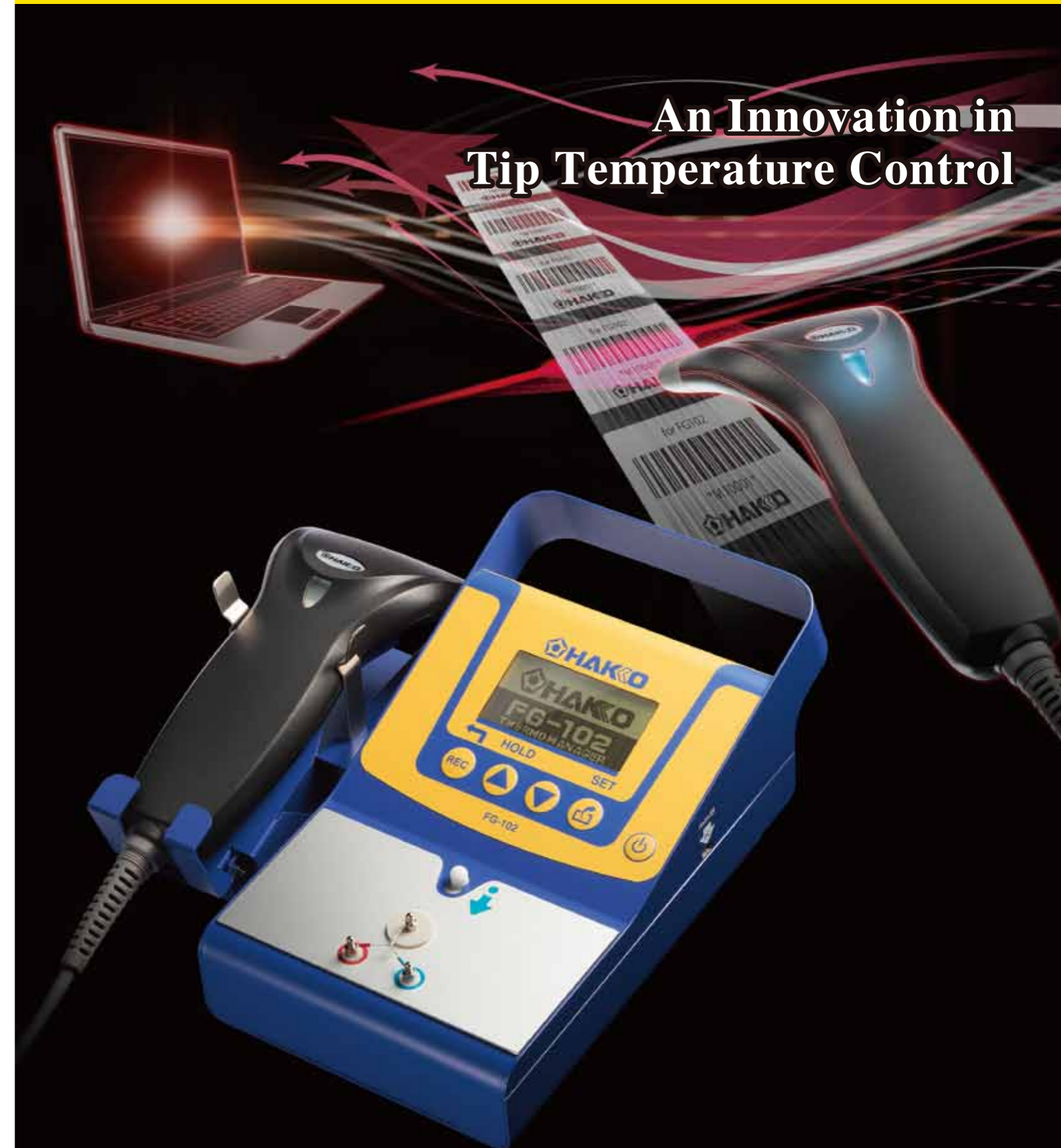
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# A new proposal for improvement and labor-saving in tip temperature control, from measurement to records management, for enhancement of manufacturing quality.

- ✓ Free of errors in temperature measurement
- ✓ Standardization of temperature measurement
- ✓ Free of transcription errors for measured temperature
- ✓ Secure management of tip temperature records

The importance of tip temperature control is growing as more and more digital controlled soldering stations are introduced in the recent manufacturing sites where highly advanced quality control systems are required. HAKKO's tip temperature thermometer with traceability management system aims to eliminate human errors (e.g. errors in measurement and transcription) and supports your process of tip temperature control in an easy, reliable and appropriate way.

\*PC and screen display images provided for informational purposes only



Notifies an operator via light and sound when barcode is scanned.



## Aim for free of errors in recoding and for labor-saving by scanning unit ID and operator ID

Support to achieve labor-saving in tip temperature control by elimination of a manual process of posting measured temperature and inputting records into computer.



Easy and reliable measurement with intuitive software and display



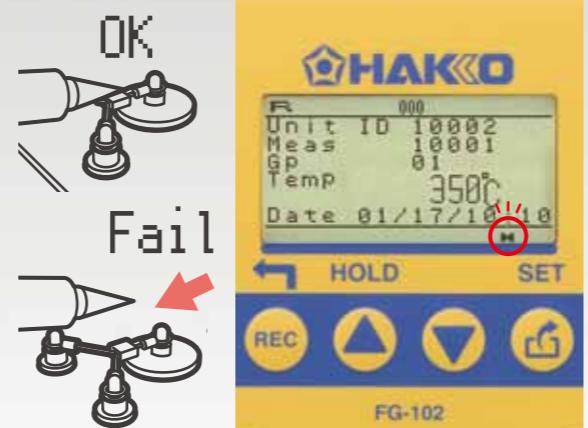
## Power saving design

The unit will automatically enter power save mode if not in operation for a certain time. Power supply to the scanner can be shut off when it is stored in the holder and battery consumption can be reduced.



## Support to achieve free of errors in temperature measurement by standardization of temperature measurement

The unit has a function to notify the end of measurement. When measurement is finished, "H" icon stops blinking. The unit can find measurement errors and prompt an operator to repeat measurement. The display shows "Fail" if tip loses appropriate contact with sensor before completion of measurement.



## Portability

Excellent portability with a handle and no need for power supply cord. Compact design makes it easy to carry a unit around in workplace.



## Pass/Fail judgment on measured temperature

Pass/Fail judgment on measured temperature can be automatically made if an acceptable temperature range is registered in advance. (The display shows "OK" or "Fail".)



## Group control

Groups can be created based on different set temperatures for different operations. Pass/Fail judgment on measured temperatures can be automatically made for different acceptable temperature ranges.



## Make it easy to manage tip temperature records by transferring the data to computer

The unit can save up to 300 measurement records and transfer the data to computer via USB. (Data in CSV format. USB cable included.)



## Automatic counting of the number of measurements

The unit automatically counts the number of measurements which indicates the timing of sensor replacement.



## Notification of the calibration date

The unit automatically notifies the next scheduled calibration date if it is registered.