

Temp-Taker® 5 – Full Specifications

◆ System Requirements for Temp-Taker® Software Application

Computer/processor	1 GHz or faster; 32-bit or 64-bit processor
Operating System	Windows 10 - Version 1803 (Build 17134) or higher
Memory	Minimum of 2 GB RAM
Hard Disk	Minimum of 4 GB available
Display	800 x 600 or higher resolution monitor
Bluetooth Radio	Bluetooth v4.0 or higher – integrated Bluetooth radio or Bluetooth USB dongle

◆ Certifications

Device Certifications	FCC, CE, RoHS, and NIST-Traceable Factory Calibration
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◆ Temperature Sensing

Device Range	-310°F to 770°F (-190°C to 410°C)
Accuracy	±1.0°F (0.56°C) with included NIST-Traceable factory-calibrated standard probe
Units	°F or °C (user selectable)
Resolution	1°, 0.1°, or 0.01° (user selectable)
User Probe Calibration	Perform probe calibration by following simple on-screen instructions; Restore factory calibration at any time
Probe Requirements	Accepts most K-Type thermocouple probes with standard mini connector; Includes high-quality penetration-style probe

◆ Included Standard Probe

Type	Fast-response penetration-style K-Type probe with mini connector
Range	-58°F to 572°F (-50°C to 300°C)
Wires	Precision thermocouple wires with SPECIAL LIMITS OF ERROR
Sheath	Material: 304/316 Stainless Steel; Length: 4" (10cm); Diameter: 0.125" (3.2mm), reduces to 0.07" (1.8mm) near probe tip
Cable	PVC jacket with 0.15" (3.8mm) diameter; Coiled portion 6.5" (16cm) long in relaxed position, stretches up to 4ft (1.2m)
Handle	Delrin material 1¾" (4.4cm) long with handle-to-cable SS-spring strain relief

◆ Device Power

Type	Requires 2 AA (1.5V) batteries; Accepts 4 AA (included) for extended battery life
Power Conservation	Configurable device auto-off, automatic LCD brightness reduction, and Bluetooth power saving features

◆ Device Memory

Type	EEPROM with >1 million write cycles and 40-year data retention (no power required)
Capacity	Stores >7,000 data records before needing to upload data to Temp-Taker® software app

◆ General Device Features

Fast Scrolling	Performs fast scrolling through long lists (20 items/second); Shortcut keys advance from first item to last item and from last item to first item
Audio/Visual Alarms	Audio/visual alarm notification provided by 2 internal buzzers (generating a combined minimum SPL of >100dBA at 10CM) and 2 orthogonally positioned LEDs
Timers	3 independent Timers (countdown or count up); Countdown timers can be set up to 9,999h 99m 00s; Countdown timers have reset memory with optionally enabled auto-reset; Each Timer can be assigned a custom name (e.g. "Misc.", "Half-n-Half", "2% Milk")
Spot Check Temps	Large-display/free-running digital thermometer with optionally enabled Statistics Mode which displays continuously-updating MAX/AVG/MIN temperature readings
Other	Large digital clock mode; Quick Help messages; Memory usage info; Auto Flip – allows for one-handed operation (with optionally available non-cabled probe)

◆ Special Features

Wireless Communication	All communication between handheld devices and the PC Temp-Taker® application is performed via Bluetooth; While a Bluetooth connection is maintained, all device generated data is automatically uploaded from the device to the PC Temp-Taker® application
Custom Data Report Tabs	Create and customize up to 50 different data report tabs, with their own dedicated date scope; Data reports are generated in spreadsheet format; Show/hide and reposition any data column; Related events are automatically grouped together and in the correct sequence (even if other events were logged within the same time frame); Configure up to 10 data filters simultaneously; Print or export reports in PDF, CSV, or XML formats
Auto-Generated Reports	Configure multiple PDF reports to automatically generate at specified intervals; Reports are saved and/or emailed; If reports are saved, they can be saved on the machine hosting the Temp-Taker® application and/or in the cloud; Requires NO MONTHLY FEES
Insufficient Activity Notifications (IAN)	Automatically sends email and/or mobile-phone text messages when temps or checklists have not been started or completed by a certain time of the day
Headquarter Control	Update device settings at satellite locations (e.g. an entire restaurant chain) using Auto Import; Requires NO MONTHLY FEES; Usage requires a local network or cloud storage folder (e.g. OneDrive)
Auto Temp	Device detects when the probe tip is inserted into product and automatically takes its temp; Thereafter, the device detects when probe tip is removed from product and automatically saves data (when appropriate)
Fast Temperatures	Proprietary temperature stability-detection algorithm produces measurements in as fast as 2s (with fast-response probe); Accommodates fast-response or medium probe types
False Measurement Detection	Probe-temperature monitoring algorithm detects and flags temperature measurement falsifications
Insufficient Time Lapse Detection	Background algorithm monitors the elapsed time between each In-Range food temperature measurement; Measurements that occur too quickly one after the other are flagged; This feature helps supervisors identify workers that do not clean the probe between each measurement
Automatic Updates	Software app and device firmware updates are received automatically via the Internet

♦ HACCP Functionality

Hot/Cold Holding	Measure/record temperatures of food in Hot/Cold Holding lines; Device automatically evaluates if the temperature is within the applicable safe zone; If the temperature is Out of Range, Corrective Options are provided; Available Features: Up to 100 custom Safe Holding Zones can be created; Each zone can be assigned customizable Corrective Options; Up to 40 custom Corrective Options can be created, each with up to 2 custom 135-character User Directives and the following Corrective Session parameters: (1) start/continue session?, (2) session duration, (3) require supervisor PIN?, and (4) require immediate data upload?; Enable one or two (back-to-back) Corrective Sessions; Session expiration reminder alarms
Cooking	Measure/record temperatures of food undergoing Cooking; Device evaluates if the temperature is within the target range; If the temperature has not reached the required minimum, the food item's cooking process continues and the user is able to take more temperatures on the same item later on
Cooling	Support for the following food cooling processes: 2-stage hot-food cooling , 1-stage hot-food cooling , and room-temp food cooling ; Device applies the procedure of the selected process when taking temperatures; Available Settings: Minimum start temperature for hot-food cooling, Duration and target temperatures of cooling stages, Reminder-alarm interval (for taking periodic temperatures), Re-heat and discard-item corrective options (for food not cooling down fast enough)
Time In Lieu of Temperature (TILT)/ Time as a Public Health Control (TPHC)	Support for straight TILT (TPHC) and hybrid TILT/Holding policies; Features: Configurable target temperature range required to start TILT Period; Configurable TILT Period duration; Ability to log item as 'Consumed' or 'Discarded' any time during the TILT Period; Reminder alarms can be configured to activate before each item's TILT Period expires; Optionally record additional temperature measurements <i>during</i> a food item's TILT Period
Question Checklists	Up to 2,000 different custom 135-character Questions can be downloaded to a device; Can optionally branch to other Questions based on answer to current question – typically used to display a custom corrective option when answer (or temp measurement) is undesired; Questions can include audio/visual alerts, comments, and option to log or not log answer; Each question can have one of the following answer types: <ul style="list-style-type: none"> • Yes/No • Custom single answer (select from up to 10 custom 21-character answers) • Custom multiple answers • Temperature measurement (i.e. the 'question' is answered by taking a Temp) • Date (e.g. Mar 18, 2016) • Numeric (integer or decimal) with optional custom answer units (e.g. "PPM"); Range: -32,767 to 32,767

♦ Programming

Programs	Up to 450 custom Programs can be downloaded to a device where each Program contains up to 40 members plus reminder alarms; A Program member consists of one of the following: an Item (e.g. Tomato), a Question, or a Process Group; A Process Group consists of up to 250 Items or Questions; Each Item that is added to a Program (either directly or within a Process Group) is assigned a HACCP Process that determines how it is used
Items	Up to 2,000 different items can be created; Each item is given a name (up to 21 characters long) and can be associated with multiple HACCP Processes; Items associated with the Hot/Cold Holding Process can be configured to capture temperature measurements using the attached probe or via keypad entry
Users	Up to 250 different users can be created and downloaded to a device; Each user name can be up to 21 characters long; See Security specs for more user-related information

◆ Settings & Data

Settings	Software app installs with sample HACCP settings that are easily customizable; A calendar-based user interface is available to facilitate <i>periodic</i> changes on recurring food menus; custom installers can be created for restaurant chains sharing the same settings, providing plug-n-play functionality
Data	Handheld device generates and stores event data (e.g. temperature measurements and answers to checklist questions); data is uploaded automatically to PC running the Temp-Taker® application; App displays up to 21 data fields for each logged event, including: Unique Event ID, Event #, Seq #, Unit Serial Number, Unit Name, User, Program Group, Program, Process Group, Question (full), Item/Question (name), Date, Time, Answer (full), Outcome, Temp Measurement, Target Temp, Temp Difference, Zone Name, Comment, and Verified By; All data fields, except Comment and Verified By, are non-modifiable
Security	Security features can be enabled/disabled at any time; Users can be assigned 1 of 3 security access levels: Admin (full access), Supervisor (configurable access), or User (lowest); When security features are enabled, each user creates a 4-digit PIN during first login; Logging into the software app grants access according to the user's assigned security level; Temp-Taker® devices have the following optionally enabled security PIN features: Require users to log in with their PIN when taking temps, require a supervisor PIN to be entered before gaining access to certain device settings (e.g. performing a probe calibration), and require supervisor PIN to be entered for select custom corrective options (e.g. discarding food); Important security-related events (e.g. resetting a user PIN) are automatically logged

◆ Mechanical

Impact Resistance	Tough thermoplastic polymer blend easily endures 6-ft drops onto concrete
Water Resistance	Protective coating encases internal electronics making device immune to high-humidity environments and splash resistant (IP54)
Keypad	Snaptron RK-series metal dome (rated for 5,000,000 cycles)
Probe Storage	Integrated probe storage compartment protects probe shaft and tip when not in use; Easy access to compartment interior facilitates periodic cleaning
Probe Connector	Compartment protects probe connector when device is dropped or cable is pulled hard
Magnetic Attachment	Equipped with two 0.6" (15mm) diameter neodymium magnets for easy and secure attachment to flat steel surfaces
Other Attachment	Integrated wall mounting and lanyard/hook holder features
Rubber Feet	4 neoprene rubber feet prevent sliding on inclined surfaces
Device Dimensions	3.8 W x 5.6 H x 1.1 D inches (97 x 142 x 28 mm) - dimensions do not include probe
Weight	0.46lb (210g) – without probe and batteries
Display	2.8" (1.5mm) monochrome graphical LCD with 128 x 64 pixels
Operating Temp Range	-4°F to 158°F (-20°C to 70°C)

◆ Device Bluetooth Radio

SIG Specification	v5.0 BLE Core Specification – backward compatible down to v4.0
Transceiver Certifications	FCC, ISED, CE, KCC, NCC and SRRC
Range	Up to 50 meters
ISM Band	2.402 to 2.480 GHz Operation
Channels	0-39
RX Sensitivity / TX Power	-90 dBm / 0 dBm