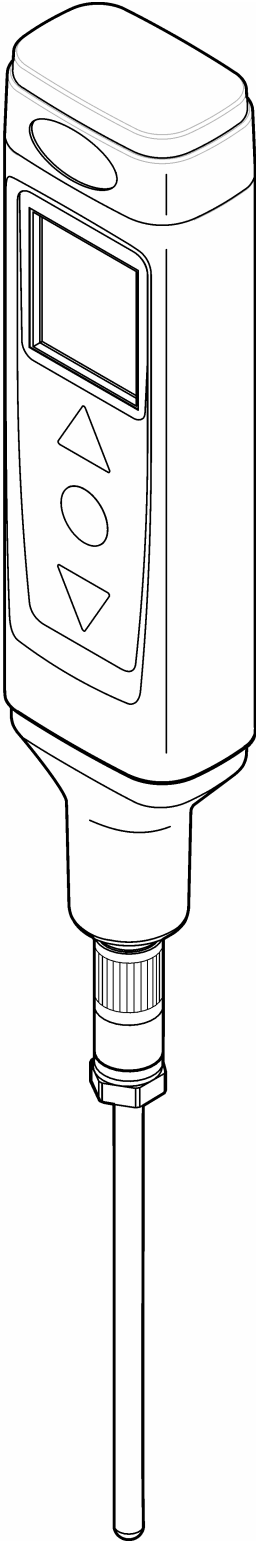


User Manual

Pocket Pro™ Temp



Specifications

Specifications are subject to change without notice.

Specification	Details
Dimensions (W x D x H)	37 x 30 x 305 mm (1.45 x 1.18 x 12.01 in.)
Enclosure rating	IP67
Weight	135 g (0.297 lb) with batteries
Power requirements (internal)	AAA alkaline batteries (4x)
Battery life	450 hours
Operating temperature	0 to 50 °C (32 to 122 °F)
Storage temperature	-20 to 60 °C (-4 to 140 °F)
Operating humidity	80% (non-condensing)
Altitude	2000 m (6562 ft)
Measurement range	-15 to 170 °C (5 to 338 °F)
Resolution	0.1
Accuracy	±1 °C (±1 °F)
Calibration points	1 point
Auto-recognition calibration standard	None
Certifications	CE mark, FCC, Industry Canada, KC Mark, RCM, China RoHS
Warranty	1 year for tester and replacement sensor for manufacturing faults only. Damage from use is not covered.

General information

In no event will the manufacturer be liable for damages resulting from any improper use of product or failure to comply with the instructions in the manual. The manufacturer reserves the right to make changes in this manual and the products it describes at any time, without notice or obligation. Revised editions are found on the manufacturer's website.

Safety information

The manufacturer is not responsible for any damages due to misapplication or misuse of this product including, without limitation, direct, incidental and consequential damages, and disclaims such damages to the full extent permitted under applicable law. The user is solely responsible to identify critical application risks and install appropriate mechanisms to protect processes during a possible equipment malfunction.

Please read this entire manual before unpacking, setting up or operating this equipment. Pay attention to all danger and caution statements. Failure to do so could result in serious injury to the operator or damage to the equipment.

Make sure that the protection provided by this equipment is not impaired. Do not use or install this equipment in any manner other than that specified in this manual.

Use of hazard information

DANGER

Indicates a potentially or imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

Indicates a potentially or imminently hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION



Indicates a potentially hazardous situation that may result in minor or moderate injury.

NOTICE

Indicates a situation which, if not avoided, may cause damage to the instrument. Information that requires special emphasis.

Precautionary labels

Read all labels and tags attached to the instrument. Personal injury or damage to the instrument could occur if not observed. A symbol on the instrument is referenced in the manual with a precautionary statement.

	This symbol, if noted on the instrument, references the instruction manual for operation and/or safety information.
	Electrical equipment marked with this symbol may not be disposed of in European domestic or public disposal systems. Return old or end-of-life equipment to the manufacturer for disposal at no charge to the user.

Certification

Canadian Radio Interference-Causing Equipment Regulation, ICES-003, Class B:

Supporting test records reside with the manufacturer.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de classe B répond à toutes les exigences de la réglementation canadienne sur les équipements provoquant des interférences.

FCC Part 15, Class "B" Limits

Supporting test records reside with the manufacturer. The device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

1. The equipment may not cause harmful interference.
2. The equipment must accept any interference received, including interference that may cause undesired operation.

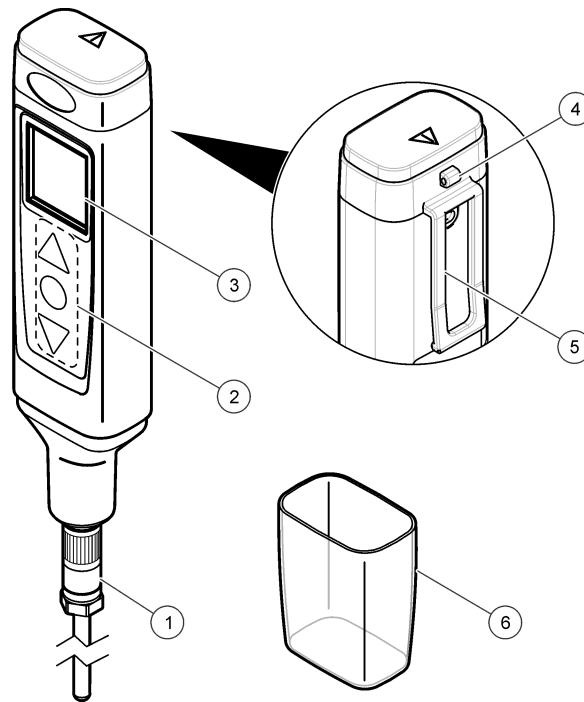
Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their expense. The following techniques can be used to reduce interference problems:

1. Move the equipment away from the device receiving the interference.
2. Reposition the receiving antenna for the device receiving the interference.
3. Try combinations of the above.

Product overview

This Pocket Pro™ temperature tester measures the temperature of liquid samples. Refer to [Figure 1](#). This tester is waterproof and floats.

Figure 1 Product features

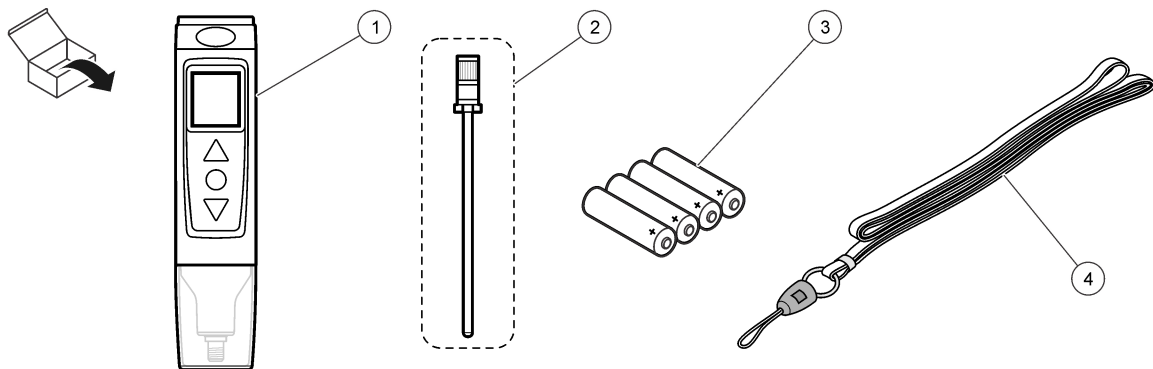


1 Sensor	3 Display	5 Pocket clip
2 Keypad	4 Lanyard attachment	6 Sensor cap

Product components

Make sure that all components have been received. Refer to [Figure 2](#). If any items are missing or damaged, contact the manufacturer or a sales representative immediately.

Figure 2 Product components



1 Pocket Pro tester	3 AAA alkaline batteries (4x)
2 Temperature sensor	4 Lanyard

Installation

Install the batteries

⚠ CAUTION



Explosion hazard. Incorrect battery installation can cause the release of explosive gases. Be sure that the batteries are of the same approved chemical type and are inserted in the correct orientation. Do not mix new and used batteries.

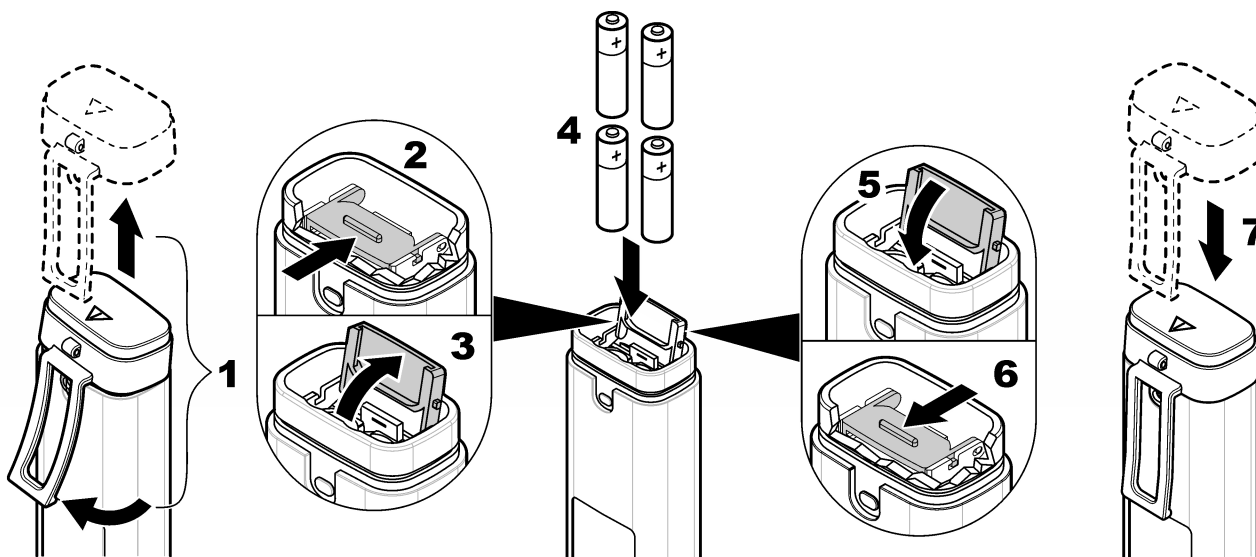
⚠ WARNING



Fire hazard. Battery substitution is not permitted. Use only alkaline batteries.

Install the four AAA alkaline batteries in the tester. Refer to the illustrated steps in [Figure 3](#).

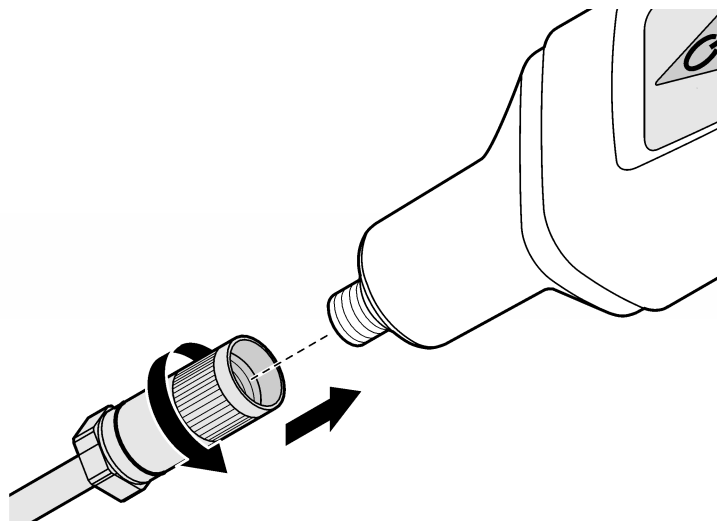
Figure 3 Install the batteries



Install the temperature sensor

Refer to the illustrated steps in [Figure 4](#).

Figure 4 Install the sensor

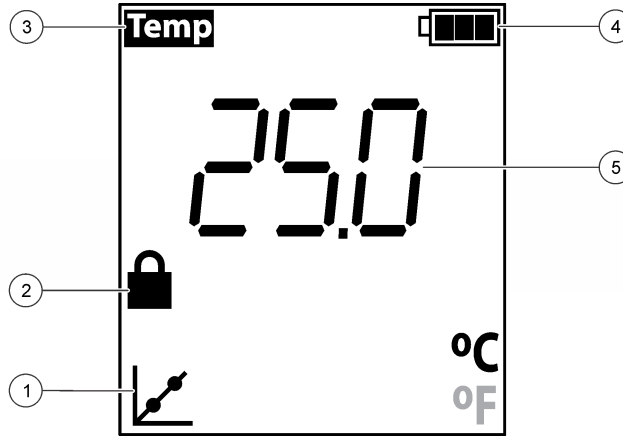


User interface and navigation

Display description

Figure 5 shows the measurements, calibration standard information and indicator icons shown on the display. Table 1 gives descriptions of the icons.

Figure 5 Display overview



1 Calibration icon	3 Parameter	5 Temperature
2 Lock icon	4 Battery icon	

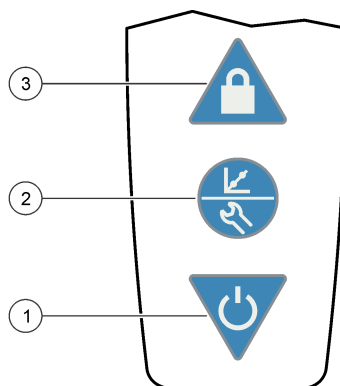
Table 1 Display icons

Icon	Description
	Shows the battery power level. Flashes when the battery power is less than 10%.
	Shows when the lock feature is on. When the lock feature is on, the parameter value on the display does not change. Push to set the lock feature to on or off.
	Shows when the tester is in calibration mode.

Keypad description




Figure 6 shows the keypad. Table 2 gives the key descriptions.

Figure 6 Keypad overview



1 Power key	2 Calibration/Settings key	3 Lock key
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Table 2 Key functions

Key	Description
	Push and hold to set the power to on or off.
	Push to start a calibration. To exit a calibration, push and hold. Push and hold until "SEt" shows on the display to go to the settings menu. To exit the settings menu, push and hold until "End" shows on the display. When in the settings menu, push to scroll through the settings. Note: Power cannot be set to off while in settings or calibration mode.
	Push to set the lock feature to on or off. When the lock feature is on, the lock icon shows and the parameter value on the display does not change.

Calibration

⚠ CAUTION



Chemical exposure hazard. Obey laboratory safety procedures and wear all of the personal protective equipment appropriate to the chemicals that are handled. Refer to the current safety data sheets (MSDS/SDS) for safety protocols.





Calibrate the tester before initial use and when:

- Results drift
- Results are not accurate



Before the initial calibration and after a dry storage, soak the sensor for several minutes in the sample or tap water.

Calibrate

Item to collect: NIST traceable thermometer



1. Set the power to on.
2. Push  to go to calibration mode.
"CUS" shows on the bottom line.
3. Put the sensor in the sample.
4. When the measurement is stable, push  and  until the temperature value of the sample shows on the display.
5. Push . The entered value will flash 3 times and then stop. "END" shows on the display.
6. Rinse the sensor with deionized water and blot dry.

Measurement




1. Set the power to on.
2. If the lock icon shows on the display, push  to go to continuous measurement mode.
3. Put the sensor in the sample. The measured value shows on the display.
4. To keep the measured value on the display when the sensor is removed from the sample, push .
5. When done with measurements:
 - a. Rinse the sensor and cap with deionized water and blot dry.
 - b. Set the power to off.

Advanced operation

Configure the settings

1. Push and hold  until "SEt" shows on the display.
2. Push  to scroll through the settings. The current value of the setting shows on the bottom line.

Option	Description
Unit	Select the temperature unit that shows on the display—Celsius (default) or Fahrenheit.
AOFF	Set the auto-off feature to on (default) or off. When set to on, power is automatically set to off after 8 minutes of no activity.
rSEt	Change the settings to the factory defaults—Yes or No (default). When set to Yes, changes the settings to the factory settings and default values.

3. To change the value of the setting, push  or .
4. When done with changes, push and hold  until "End" shows to go to continuous measurement mode.

Maintenance

CAUTION



Multiple hazards. Only qualified personnel must conduct the tasks described in this section of the document.

Clean the sensor

Clean the sensor with a clean cloth. Clean the sensor thoroughly after each use and when:

- Stabilization is slow
- Results drift or are not accurate

Replace the batteries

When the battery icon flashes or the tester will not come on, replace all four batteries. Refer to [Install the batteries](#) on page 5.

Troubleshooting

Message	Possible cause	Solution
"- - -"	The temperature value is not within the measurement range of the tester. Refer to Specifications on page 2.	Make sure that the sample temperature is within the measurement range of the tester. Gently clean the sensor. Refer to Clean the sensor on page 8. Calibrate as necessary.
Battery icon flashes	The batteries have less than 10% power remaining.	Replace all four batteries. Refer to Install the batteries on page 5.

Replacement parts

WARNING



Personal injury hazard. Use of non-approved parts may cause personal injury, damage to the instrument or equipment malfunction. The replacement parts in this section are approved by the manufacturer.

Note: Product and Article numbers may vary for some selling regions. Contact the appropriate distributor or refer to the company website for contact information.

Table 3 Replacement parts

Description	Quantity	Item no.
AAA alkaline batteries	4/pkg	4674300
Lanyard	1	201305
Temperature sensor, replacement	1	9531701

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