

WARNING

PLEASE READ FIRST

Warning!

Do not measure live circuits! For such applications use the Guard-Temp® line of non-contact infrared pyrometers.

Warning!

When measuring high temperatures, standard safety precautions must always be followed.

Warning!

When measuring temperature of operating machinery, never insert your hands or arms to acquire reading. Use correct extension handles at all times.

Warning!

These instruments are not rated for hazardous (explosive) areas. For such applications use Pocket -Probe® or Acu-Therm® analog instruments.

These instruments are designed for temperature measurement purposes only. Any other use may void warranty.

Battery Replacement

The battery compartment is located in the back of the instrument. To remove the battery press the tab on the battery cover. Pull the battery cover away from the instrument to expose the battery. Remove clip from old battery and disconnect. Connect new battery and snap into clip. Replace the battery compartment cover.

Calibration

E-Z Probe® instruments are constructed of the highest grade components available and are subjected to rigorous testing and calibration procedures. If the instrument should be damaged or needs calibration it should be returned to the manufacturer. If any adjustment is required, technical assistance should be requested for calibration procedure.

Parts And Service

If the instrument indicates an open sensor while a sensor is plugged in, remove the sensor and place a short across the instrument jack. The short can be wire, such as a paper clip, or any piece of metallic material. Once the short is applied the instrument should read approximately room temperature. If the reading indicates room temperature, most likely the sensor is defective and needs to be replaced. If the instrument displays a negative reading then the battery should be replaced. If after installing a new battery the negative reading is still displayed then the instrument should be returned for repair.

Replacement parts may be obtained from your local dealer or directly from manufacturer. It is not recommended to perform in-house repairs unless done by a qualified instrumentation specialist. Note: Tampering with the instrument may cause additional or more severe damage, and if under warranty may void any guarantees on the instrument.

If returning for repair be sure to place instrument in corrugated container with ample packing to prevent further damage in shipment. Be sure to label package "Fragile – Handle With Care" and to insure for the full value of the instrument. The manufacturer accepts no responsibility for damages or loss during transit.

Important: Be sure to provide specific details as to the nature of the repair service required.

Important: Before returning an instrument for repair, be sure to install a new battery to determine whether this may restore the instrument to its proper working condition.

Warranty

This instrument is guaranteed for one full year from date of purchase. Be sure to fill out and mail the guarantee information to activate warranty.

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Specifications

Display	1/2" Tall LCD
Compensation	Automatic Cold End & Ambient
Resolution	1°F & 1°C
Repeatability	1°F & 1°C
Sensor Resistance	1000Ω max.
Operating Adjustments	None
Instrument Types	K and J
Response Time	3 per second
Linearization	Continuous
Weight	6.2 oz.
Dimensions	4.8"h x 2.7"w x 1"t
Circuitry	Ultra Stable State of the Art CMOS
Input	Polarized Miniature Thermocouple Jacks (accepts miniature thermocouple plugs)
Battery	Standard 9 Volt (supplied with instrument)
Battery Life	Up to 3000 hrs.
Battery Status Indicator	Displays "LO BAT" at 50 hrs. remaining*
Open Sensor	Displays Random Negative Numbers
Tested Ambient	+40°F to +120°F / ±1°F
Usable Ambient	-20°F to +150°F / ±2°F Additionally
Storage Temperature	-20°F to +170°F

* not available on 0-600°F model

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E-Z Probe® Digital Pyrometer

User Manual for EZK-C & EZJ-C



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E-Z Probe® Digital Pyrometer

E-Z Probe® is a precision digital temperature indicator. It is designed to deliver years of trouble-free service for preventive maintenance, product quality, and general measurements. For the most accurate readings with the lowest margin for error, it is recommended to use assured accuracy sensors.

Features

High Visibility Display: The liquid crystal display is maintenance free. The 1/2" tall display is visible in ambient light from dim interiors to direct sunlight.

Controls: E-Z Probe® has an "On/Off" power switch and an "F/C" switch.

Battery: This instrument uses one 9 volt battery. The battery is located in the battery compartment in the back of the instrument. The battery offers operation up to 3000 hrs.

Low Battery Alert: This instrument has an automatic battery check that displays "LO BAT" when the battery has approximately 50 hrs. of operation remaining (This feature is not available on 0-600°F model).

Environment: This instrument has an operational temperature range of -20°F to +150°F. The storage range for this instrument is -20°F to +170°F.

Tempered Glass Display Window: The tempered glass display window allows the use of the E-Z Probe® in many environments where the typical plastic window would fail through leakage or diminished visibility. The scratchproof tempered glass is easily cleaned and will continually withstand harsh and abusive environments.

Sensor Compatibility: This instrument, dependent on model, will operate with any Type "K" or "J" thermocouple or sensor in any combination of lead or sensor lengths up to 1000 feet. The E-Z Probe® features two thermocouple inputs, one on the top and one on the bottom of the instrument. **Note:** Only one input can be used at one time or incorrect readings may result.

Open Sensor: Open sensors are indicated as an under range condition and displayed as "-1".

Operation

Insert a thermocouple sensor plug into one of the polarized thermocouple jacks on the instrument. If the plug does not fit easily, do not use excessive force, check polarity and try again.

Note: Only "ONE" sensor can be attached to the instrument at a time!

Select the appropriate position of the "°F/°C" switch. The display should reflect the selection in °F or °C. You can change this setting at any time during operation.

While the instrument is on, it will display the temperature that the thermocouple is reading. Place sensor against or into object to be measured and wait for readings to stabilize. The stabilization period can be from 1 to 15 seconds dependent on thermocouple sensor.

Battery Replacement Schedule

The battery should be replaced after one year regardless of battery condition. This schedule helps to avoid any leakage that may harm the instrument components. It is recommended that a maintenance schedule be kept to insure against potential damage.

Replacements should be made using high quality batteries. It is recommended that alkaline batteries be used. Carbon-Zinc batteries are not recommended because of decreased life expectancy and the higher risk of battery leakage.

Important: The battery should be replaced every 12 months regardless of battery condition. Failure to do so may result in battery leakage that may damage the instrument.