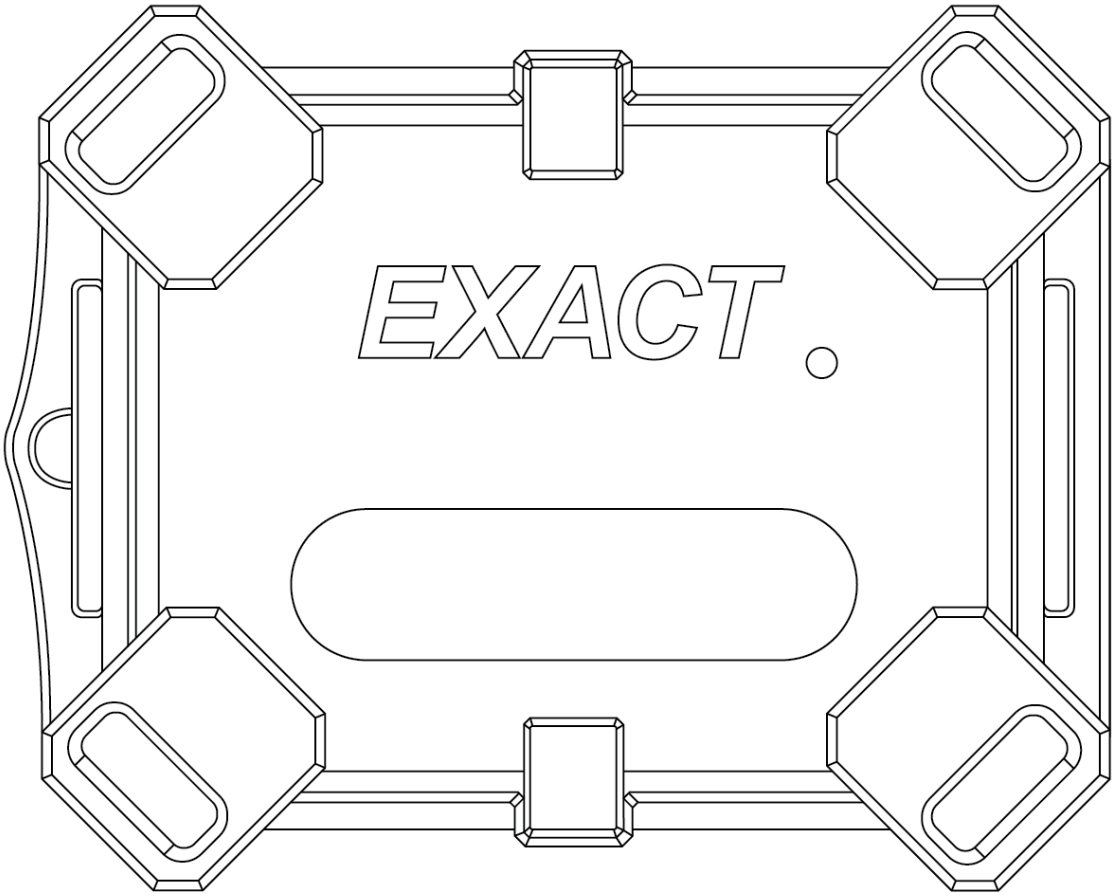
User Manual

Flex



WARNINGS

Lithium Ion battery inside. Fire hazard if mistreated.
Do not heat above 60°C, crush or puncture.

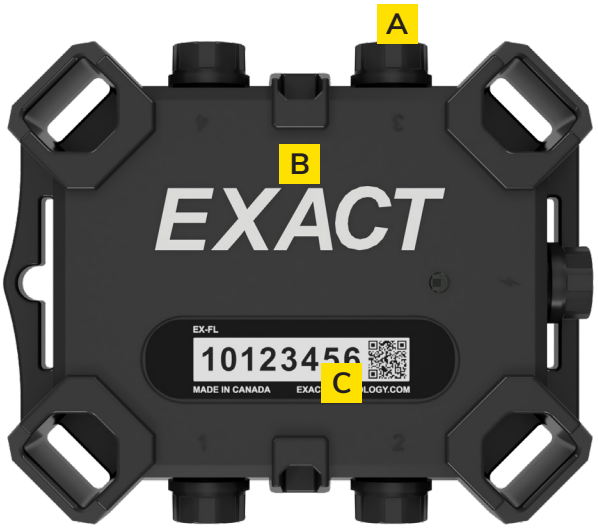
CAUTIONS

Do not allow water, concrete or debris into the probe ports.
Ensure either probe locknut or probe port cap are tightened onto all ports at all times.

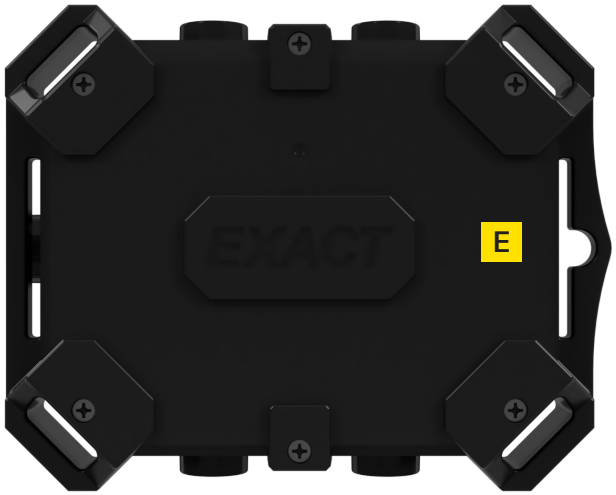
Do not use Logger if any port is deformed or damaged.

Features

Front view



Rear view



A **Probe Inputs**: Connect up to four EXACT temperature probes to one Flex.

B **Ambient Probe:** Every Flex is equipped with an internal ambient temperature probe.

Internal Memory: In addition to cloud storage, Flex stores readings of 90 days at 15 minutes.

C **Serial Number:** Assign a Flex to an element or search for it on the hardware page by its serial number.

D **Input Cap:** Keep unused inputs protected from water and dust using the caps provided or by leaving the connector end of a cut probe attached to an input.

E Designed for mounting and securing with zip ties.

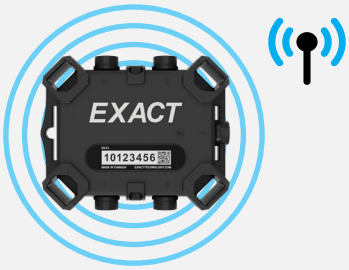
F **Probe:** EXACT's pre-made, pre-tested and lab calibrated (to within +-0.5°C / +-1.0°F) temperature probe.

Getting Started

1

Place Flex off the ground and above metal surfaces when possible.

2

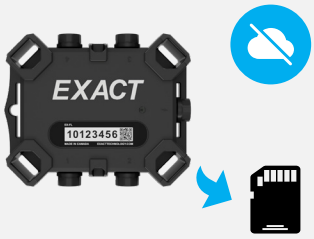


Flex will automatically connect. No ON/OFF switch! Ambient readings begin transmitting every 15 minutes.

3

When a probe is connected to an input, temperature readings begin transmitting every 15 minutes.

4



When a probe is disconnected or cut, Flex enters the sleep mode and transmits every 6 hours. Ambient reading is recorded every 15 minutes.

Hardware Status on Portal

- Green status denotes a Flex with adequate signal strength and/or battery.
- Outlined green status denotes a Flex is in a sleep mode.
- Orange status denotes a Flex with low signal strength and/or battery.
- A red icon denotes a Flex that is disconnected, has missed two consecutive readings, and/or has low battery.

FAQs

Q **How do I recover data from a Flex that was offline?**
A If Flex can't connect to the cloud or offline, it will store the measured readings in its memory.

Q **Why is a Logger showing as "Disconnected"?**
A It is unable to connect to the cloud. Begin troubleshooting by placing the Logger in close range of a Relay and contact EXACT.

Q **What do I do if my Logger has low battery (<30%)?**
A Contact EXACT for replacement and/or recalibration.

Usage Guidelines

Placement

- Placement on or near metallic structures or large obstructions will negatively impact wireless transmission.
- Ideal placement of the device for wireless communication is at least 1m / 3ft off the ground.
- If using the ambient temperature measurements, place the unit in a shaded area to prevent solar loading.

Handling

- Ensure temperature probe ports are protected when handling. An impact may result in damage to the port.
- When not in use, apply probe port covers to prevent contamination, corrosion and damage.
- When connecting a temperature probe, ensure the threading fastener is firmly in place and the probe port is undamaged. Failure to do so may result in contamination (liquid, steam, debris) that may alter the accuracy of measurements.

Storage

- Remove any temperature probes from the device before placing in storage to maintain battery life.

Lifetime Humidity Sensor

- When operated at a relative humidity at 90% for extended periods, the mean time to failure for the humidity sensor is expected to be 3 months+. Consult with your EXACT Technology representative if you intend to operate in these conditions.

Technical Specifications

# of inputs	Temperature: 4 external + 1 ambient RH: 1 external
Operating range	-20°C to 60°C (-4°F to 140°F)
Measurement range	-30°C to 120°C (-22°F to 248°F)
Accuracy/Resolution	±0.2°C (±0.4°F) / 0.1°C (0.2°F)
Battery	Runtime: 4 months (LTE). 24 months (LoRa). Charge time: 14 hrs
Input Voltage	Flex Logger: 4-13.5V ⎓, 2A Max Charger: 100-240V ~, 0.5A Max
Overvoltage Category	Flex Logger: CAT I / Charger: CAT II
Relative Humidity	0-100% RH
Altitude	Up to 2000 m
Interval	Default: 15 min. Opt: 1-60 min.
Memory	90 days @ 15 min intervals
Pollution Degree	1
Cellular technology	LTE Cat M1, NAmer: Bands 2,4,12. Europe: Bands 3,8,20 Australia: Bands 28 LoRa: 915 MHz (CA/USA/AUS) / 868 MHz (EU)
Radio range	LoRa: >800 m line of sight to Relay LTE: ~1 km line of sight to tower
Ingress protection	Dust/Steam/Waterproof
Dimensions	5.85” x 4.65” x 2.15” (149 x 118 x 55 mm)
Weight	2.1 lbs / 953 g

Contact *EXACT* for support

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