

- High-accuracy J, K, S, T thermocouple recordings
- Automatic cold-junction compensation
- Accepts industry-standard subminiature thermocouple connectors



**Thermocouple Logger
HOBO U12 J,K, S, T**
U12-014
5.8 x 7.4 x 2.2 cm
(2.3 x 2.9 x 0.85 in)
46 g (1.6 oz)

Memory: 43,000 measurements
 Sample rate: 1 second to 18 hours (user-selectable)
 Battery life: 1-year (typical)—user-replaceable



Temperature	Temperature Ranges	Accuracy	Resolution (12-bit)
with J Thermocouple	0° to 750°C (32° to 1382°F)	±2.5°C (±4.5°F)	0.21° @ 375°C (0.38° @ 707°F)
with K Thermocouple	0° to 1250°C (32° to 2282°F)	±4.0°C (±7.2°F)	0.32° @ 625°C (0.58° @ 1157°F)
with S Thermocouple	-50° to 1760°C (-58° to 3200°F)	±6.0°C (±11.0°F)	0.44° @ 855°C (0.79° @ 1571°F)
with T Thermocouple	-200° to 100°C (-328° to 212°F)	±1.5°C (±2.7°F)	0.10° @ -50°C (0.18° @ -58°F)

Software and Communications

Software*

HOBOware® Pro Software (Windows®)	BHW-PC
HOBOware Pro Software (Mac®)	BHW-MAC
HOBOware Lite Software (Windows/Mac)	BHW-LITE

HOBOware includes USB interface cable

Optional Communications

HOBO U-Shuttle	U-DT-1
USB to Ethernet Server	SERVER-US-4

*Compatible with HOBOware Pro or HOBOware Lite software.

Complete system requires logger, sensors, and communications.

HOBO Thermocouple Loggers

Accessories

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Beaded Thermocouple Probes on Spool Caddies

TC6-J, TC6-K, TC6-T
1.8 m (6 ft)



Thermocouple Wire

TCW100-J, TCW100-K,
and TCW100-T
30.5 cm (100 ft.)



High-temperature Stainless Steel Probe – Type K

TCP6-K12
30.5 cm (12 in)



Subminiature Thermocouple Connectors

SMC-J, SMC-K, SMC-T

Probe and Wires

Exposed-junction thermocouple probes include 6 ft of insulated 30-AWG wire wound on an integrated spool caddy/subminiature connector

100' coils of insulated 24-AWG thermocouple wire

Temperature	Temperature Ranges	Accuracy
Type J TEFLON insulation:	0° to 250°C (32° to 482°F)	±2.2°C (±4°F)
Type K glass braid insulation:	0° to 285°C (32° to 545°F)	±2.2°C (±4°F)
	285° to 482°C (545° to 900°F)	±0.75%
Type T TEFLON insulation:	-200° to -65°C (-330° to -85°F)	±1.5%
	-65° to -130°C (85° to 270°F)	±1.0°C (±1.8°F)
	130 to 180°C (270° to 356°F)	±0.75%

Temperature Ranges	Accuracy
0° to 293°C (32° to 559°F)	±2.2°C (±4°F)
293° to 900°C (559° to 1650°F)	±0.75%**

** Percentage is of degrees above or below 0°C (32°F)

- 12in 304 stainless-steel probe; 3/16in diameter with isolated thermocouple
- 1in Handle with spring-type strain relief
- 6ft 19-AWG cable

- Accept stranded or solid wire up to 20 AWG Internal silicone grommet for strain relief
- Captive cover screws
- Write-on window
- Type J, K, and T versions available

External Sensors & Cable Ordering Information

Type J, K, S, T, Thermocouple

U12-014

Thermocouple Probes and Wires

1.8 m (6 ft) Beaded Thermocouple with connector—Type J	TC6-J
1.8 m (6 ft) Beaded Thermocouple with connector—Type K	TC6-K
1.8 m (6 ft) Beaded Thermocouple with connector—Type T	TC6-T
30.5 cm (12 in) Stainless-Steel Probe Thermocouple—Type K	TC6-K12
30.5 m (100 ft) of 24-AWG Thermocouple wire—Type J	TCW100-J
30.5 m (100 ft) of 24-AWG Thermocouple wire—Type K	TCW100-K
30.5 m (100 ft) of 24-AWG Thermocouple wire—Type T	TCW100-T