

# HOB0<sup>®</sup> Thermocouple Logger

onset

- High-accuracy J, K, S, T thermocouple recordings
- Automatic cold-junction compensation
- Accepts subminiature thermocouple connectors
- Direct USB interface

## HOB0 U12 J, K, S, T Thermocouple Logger #U12-014

Size/Weight:  
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:

with J Thermocouple:  
with K Thermocouple:  
with S Thermocouple:  
with T Thermocouple:  
Internal temperature:

### Temp Measurement Ranges

0° to 750°C (32° to 1382°F)  
0° to 1250°C (32° to 2282°F)  
-50° to 1760°C (-58° to 3200°F)  
-200° to 100°C (-328° to 212°F)  
0° to 50°C (32° to 122°F)

### Accuracy\*

±2.5°C (±4.5°F)  
±4.0°C (±7.2°F)  
±6.0°C (±11°F)  
±1.5°C (±2.7°F)  
±0.35°C (±0.63°F)  
*\* logger only*

### Resolution (12-bit)

0.21°@ 375°C (0.38°@ 707°F)  
0.32°@ 625°C (0.58°@ 1157°F)  
0.44°@ 855°C (0.79°@ 1571°F)  
0.1°@ -50°C (0.18°@ -58°F)  
0.03°@ 25°C (0.05°@ 77°F)

## Thermocouple Probes and Wires

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

Beaded  
Thermocouple Probes  
on Spool Caddies  
#TC6-J, TC6-K,  
TC6-T



### Description

Type J TEFLON<sup>®</sup> insulation  
Type K glass braid insulation  
Type T TEFLON insulation

### Range

0° to 250°C (32° to 482°F)  
0° to 285°C (32° to 545°F)  
285° to 482°C (545° to 900°F)  
-200° to -65°C (-330° to -85°F)  
-65° to 130°C (-85° to 270°F)  
130° to 180°C (270° to 356°F)

### Initial Accuracy

±2.2°C (±4°F)  
±2.2°C (±4°F)  
±0.75%\*\*  
±1.5%\*\*  
±1.0°C (±1.8°F)  
±0.75%\*\*

High-temperature  
Stainless Steel  
Probe—Type K  
#TCP6-K12



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

### Range

0° to 293°C (32° to 559°F)  
293° to 900°C (559° to 1650°F)

### Accuracy

± 2.2°C (± 4°F)  
± 0.75%\*\*

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

Subminiature  
Thermocouple  
Connectors  
#SMC-J, SMC-K,  
SMC-T



## U12 Thermocouple Logger Ordering Information

Description	Part No.
Type J, K, S, T, Thermocouple	U12-014
<b>Thermocouple Probes and Wires</b>	
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	TCP6-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

For ordering subminiature connectors, please refer to page 27 or the Onset website

## Software and Communications

HOBOWare includes USB interface cable

HOBOWare <sup>®</sup> Pro Software (Windows <sup>®</sup> )	BHW-PC
HOBOWare Pro Software (Mac)	BHW-MAC
HOBOWare Lite (Windows/Mac)	BHW-LITE

## Optional Communications

HOB0 U-Shuttle	U-DT-1
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Patented technology (U.S. Patent 6,826,664)