

External sensors/input cables

Cables and Sensors for use with the 'External' input of H8 and U12 HOBO loggers.

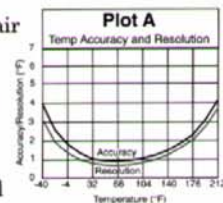
Accuracies quoted here include both logger and sensor.



TMCx-HD and TMC6-HB temperature sensors

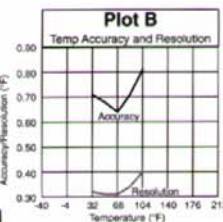
Wide-range temperature sensors

- Range: -40°F to +212°F (-40°C to +100°C) in air
- Accuracy: $\pm 0.9^\circ\text{F}$ at +70°F ($\pm 0.5^\circ\text{C}$ at +20°C), see plot A (insert probe 0.9" min.)
- Resolution: 0.7°F at +70°F (0.41°C at +20°C), see plot A
- Response time in still air: 4.5 min. typical
- Response time in stirred water: 1 min. typical
- 0.2" diameter sensor (fits in 1/4" holes)



High-accuracy temperature sensor (TMC6-HB)

- Range: +32°F to +110°F (0°C to +44°C) in air
- Accuracy: $\pm 0.7^\circ\text{F}$ at +70°F ($\pm 0.4^\circ\text{C}$ at +20°C), see plot B (insert probe 1.3" min.)
- Resolution: 0.3°F at +70°F (0.2°C at +20°C), see plot B
- Response time in still air: 7.5 min. typical
- Response time in stirred water: 1 min. typical
- 0.3" diameter sensor (fits in 3/8" holes)
- 6' cable



Note: Not recommended for prolonged use in water. Do not use for more than 3 months total in water less than +90°F (+30°C), or more than 1 month total in water over +90°F.

Stainless Steel temperature probe (TMC6-HC)



- 4" food-grade stainless-steel probe with pointed tip; 0.12" diameter
- Range: -40°F to +212°F (-40°C to +100°C) in air or water
- Accuracy: $\pm 0.9^\circ\text{F}$ at +70°F ($\pm 0.5^\circ\text{C}$ at +20°C), see plot A; (insert probe 2" min.)
- Resolution: 0.7°F at +70°F (0.41°C at +20°C), see plot A
- Response time in still air: 5 min. typical
- Response time in stirred water: 5 sec. typical
- 6' cable

Split-core AC current sensors*

- Ranges available (AC Amps): 0-20, 0-50, 0-100, 0-200, 0-600
- Ratio and linear accuracy: $\pm 2.0\%$ of full scale (includes logger accuracy)
- Response time: approximately 250 milliseconds from 10% to 90% of amplitude
- Input current: AC current, sine wave, single phase 50 Hz or 60 Hz, load power factor 0.5 to 1.0 lead or lag
- Voltage rating: 600 Vac tested with full wave 10 KV impulse for 60 seconds
- Construction and operating environment: Plastic and/or potted housing for indoor type 1 rating per UL506; removable leg
- 6' cable



AC current sensor

*Note: AC current sensors are not CE approved.

Part No	Range	Window	Length	Width	Height (mm)
CTV-A	0-20 A AC	2.8/2.3	74	66	25
CTV-B	0-50 A AC	2.8/2.3	74	66	25
CTV-C	0-100 A AC	2.8/2.3	74	66	25
CTV-D	0-200 A AC	38/33	99	119	28
CTV-E	0-600 A AC	74/64	135	150	28

4-20 mA cable (CABLE-4-20mA)

- Range: 0 to 20.1 mA
- Accuracy: $\pm 0.1 \text{ mA} \pm 1\%$ of reading
- Resolution: 0.4% of full scale
- 18" cable with 3.5" tinned braided wire leads



4-20mA cable

Voltage input cable (CABLE-2.5-STEREO)

- 6' cable with 0.5" tinned braided wire leads.
- For voltage input specifications, refer to the HOBO H8 specifications for the model you will be using.



0-2.5 Volt DC cable

Ordering Information:	Part No
Wide-range temperature sensors:	
1ft cable:	TMC1-HD
6ft cable:	TMC6-HD
20ft cable:	TMC20-HD
50ft cable:	TMC50-HD
High accuracy temperature sensor (6ft cable):	TMC6-HB
Stainless-steel temperature probe (6ft cable):	TMC6-HC
Split-core AC current sensors:	
0 - 20 A AC	CTV-A
0 - 50 A AC	CTV-B
0 - 100 A AC	CTV-C
0 - 200 A AC	CTV-D
0 - 600 A AC	CTV-E
HOBO H8 to PC Cable:	CABLE-PC-3.5
HOBO U12 to PC USB:	CABLE-USMB
USB to serial adaptor:	CABLE-USB232
4-20 mA Cable:	CABLE-4-20mA
Voltage Cable:	CABLE-2.5-STEREO
CO2 to logger cable:	CABLE-CO2



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