

Warranty

This CTV product is warranted to be free from defects in material and workmanship for a period of five years from the date of original purchase. During the warranty period Onset will, at its option, either repair or replace products that prove to be defective. This warranty is void if the Onset products have been damaged by customer error or negligence or if there has been an unauthorized modification.

Who do I contact for support?

Contact the company that you bought the loggers from: Onset Computer Corporation or an Onset Authorized Dealer.

Returning Products to Onset

- Direct all warranty claims to place of purchase.
- You must provide proof that you purchased the Onset product(s) directly from Onset (purchase order number or Onset invoice number).
- Before returning a failed unit, you must obtain a Return Merchandise Authorization (RMA) number from Onset. Onset will issue an RMA number that is valid for 30 days.
- You must ship the product(s), properly packaged against further damage, to Onset (at your expense) with the RMA number marked clearly on the outside of the package.
- Onset is not responsible for any package that is returned without a valid RMA number or for the loss of the package by any shipping company.
- Loggers must be clean and free of any toxins before they are sent back to Onset or they may be returned to you.

Onset Computer Corporation
470 MacArthur Blvd., Bourne, MA 02532
Mailing: PO Box 3450, Pocasset, MA 02559-3450
Tel: 508-759-9500, 1-800-564-4377 Fax: 508-759-9100
loggerhelp@onsetcomp.com www.onsetcomp.com

6225-C MAN-CTV

Split-core AC Current Transformer (CTV) (AC Amperage to DC Voltage Transducer)

Part #: 6225-C Doc. #: MAN-CTV

For use with HOBO® H8 and U12 Family data loggers.

Part Number	Current Range	Dimensions			
		Window Size	Length (inches)	Width (inches)	Height (inches)
CTV-A	0-20 AMPS AC	1.10 x .90	2.9	2.58	1.04
CTV-B	0-50 AMPS AC	1.10 x .90	2.9	2.58	1.04
CTV-C	0-100 AMPS AC	1.10 x .90	2.9	2.58	1.04
CTV-D	0-200 AMPS AC	1.54 x 1.26	3.92	4.72	1.14
CTV-E	0-600 AMPS AC	2.92 x 2.46	5.3	5.91	1.12



Specifications:



- Accuracy with H8: $\pm 5.0\%$ of full scale (includes HOBO accuracy)
- Accuracy with U12: $\pm 4.5\%$ of full scale (includes HOBO accuracy)
- Response time (from 10% to 90% of amplitude):
 - CTV-A approx. 440 milliseconds
 - CTV-B approx. 200 milliseconds
 - CTV-C approx. 100 milliseconds
 - CTV-D approx. 450 milliseconds
 - CTV-E approx. 490 milliseconds
- Input Current: AC current, sine wave, single phase 50 Hz or 60 Hz, load power factor 0.5 to 1.0 lead or lag
- Output: 0-2.5 VDC
- Voltage rating: 600 VAC.
- Temperature rating
 - CTV-A, -B, -C: -15°C to $+60^{\circ}\text{C}$ ($+5^{\circ}\text{F}$ to $+140^{\circ}\text{F}$),
 - CTV-D, -E: -15°C to $+40^{\circ}\text{C}$ ($+5^{\circ}\text{F}$ to $+104^{\circ}\text{F}$),
- Construction: Molded plastic housing for indoor use per UL508
- Cable: 6 feet, compatible with H8 and U12 family external inputs

Notice

- This product is not intended for life or safety applications.
- Do not install this product in hazardous or classified locations.
- The installer is responsible for conformance to all applicable codes.
- Mount this product inside a suitable fire and electrical enclosure.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH



Failure to follow these instructions will result in death or serious injury.

- Follow safe electrical work practices.
- See NFPA 70E in the USA, or applicable local codes.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Read, understand and follow the instructions before installing this product.
- Turn off all power supplying equipment before working on or inside the equipment.
- Use a properly rated voltage sensing device to confirm power is off.
- DO NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION
- Secondary terminals must be shorted, or connected to the burden at all times.
- Specification Note: For CE compliance, conductor shall be insulated according to IEC 61010-1:2001, Installation Category III or equivalent. The product design provides for basic insulation only.

Using the CTV with the HOB0 Logger

1. Insert the 2.5 mm plug of the CTV into an external input (black 2.5 mm jack) of a HOB0 H8 or U12 family logger.
 2. To start the logger, go to the Launch function within BoxCar®, BoxCar® Pro, or HOB0ware™ software. For more details on software, please refer to the software manual.
 3. Select the correct AC current range in Software. The current range of the CTV is provided on the CTV label. Failure to select the correct range will result in inaccurate data.
Do not exceed the AC current rating of the CTV
- Note:** The software does not use specific part numbers (i.e. CTV-A) but refers to Current Transformers (CT-A through -E) only.
4. In the Launch screen, be sure to enable the appropriate channel and select the range within the **Channels and Sensors** selection window.

Installation

- The I-bar can be hinged open in order to install the CTV around an individual wire carrying a single phase.
 - 1) Rotate the I-bar open (on the CTV-D and -E units, press in the I-bar tabs to open, 2) place the wire in the CTV window, 3) snap the I-bar closed.
- The I-bar on the CTV-D and CTV-E units is fully removable for easy installation. Make sure the I-bar is replaced in the proper orientation to ensure correct readings. The contacts on the unit and I-bar are marked with matching notations.
- The CTV-A, -B, and -C units are provided with a snap-on mounting plate which can be removed from the CTV and mounted separately. Mount the plate under the wire you want to monitor and, once the cable is installed into the CTV, snap the CTV/wire assembly onto the mounting plate.
- You can remove the CTV from the plate by opening the CTV and sliding it off the plate or gently rocking the CTV slightly and pulling up at the same time. The CTV should come out of the mounting plate. Be sure that the current you are measuring will never exceed the maximum range of the CTV. This would corrupt the data on all channels of HOB0 H8 family loggers.