

NEW

WORLD'S FIRST "C.T." POWERED LOOP TRANSMITTER NO POWER SUPPLY REQUIRED!

**MODEL
CTT**
Pat. # 7,626,378

FEATURES:

- Powered By Your C.T. or Ext. Powered
- No External Power Supply Required
- 0.05A to 5A/0.5-5A Input
- 4-20mA Out
- ≤ 100 Ohm Load (C.T. Powered)
- ≤ 750 Ohm Load (Ext. Powered)
- Nuclear, Mil-Spec & Industrial Grades
- Panel or Din Rail Mount

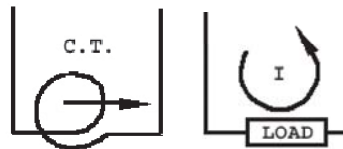
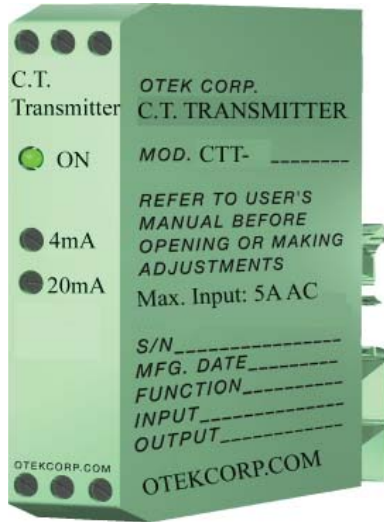
**Model CTT-I3
NEMA 4X**



SPECIFICATIONS

- Input Range: (Ext. Power) 0.05 - 5A AC
- Input Range (C.T. Power): 0.5-5AAC
- Input Range V, W or Hz: 50-150VAC
- Accuracy & Linearity: $\pm 0.5\%$ F.S.
- Isolation: 500 VRMS AMPS Only
- Isolation V, W or Hz: NONE
- Conversion: True RMS
- Min.-Max. Load: 0-750 Ohms Ext. Power (Int. Power)
- Min-Max Load: 0-100 Ohms w/DPM
- Max. V Out: 24VDC
- Max. I Out: 26mA
- Op/St Temperature: -20 + 70/-30 + 80°C
- CMBTF: $\geq 100K$ Hours
- Warranty: Lifetime (LTD)

**Model CTT-II
DIN-RAIL MOUNT**



**WARNING: No Isolation
From Your P.T. Do Not
Connect to A.C. Line.
Only Connect To Isolated
P.T.**

OTEK's new "CTT" is a variation of the company's recently introduced ACS Series that brought you the World's First Truly C.T. (Current Transformer) powered instruments to monitor or control A.C. variables (V, A, W & Hz). Now OTEK brings you complete freedom and savings. The "CTT" is 100% powered by your onsite 5 Amp C.T.. Just connect your C.T. output to the CTT, your current loop load and eliminate the conduit power supply & wires. The convenient plug-in screw terminal connectors (26-16 Ga) on the rear, allows for quick installation.

POWER: The CTT is powered by your C.T. and just like analog meters, if the C.T. is dead or has below minimum current output, the CTT won't display or transmit. For applications requiring display and transmission, even at no input, order CTT externally (24VDC) powered (Digit 3, Option 1).

PACKAGES:

The DPM case (Option 0) has a 4 1/2 digit (19999) Red LED display. The DIN Rail (Option 1) is only 1" wide x 3.1 H x 3" deep. The Nema 4X (Options 3 & 4) can be wall, panel or pipe (NPT 1/2") mounted. The optional displays (Option 4) is 0.25" Red LED.

Standard Calibration is 0-0.4A no display, 0.5A = 5.6mA = 625 counts, 5A = 20mA = 10000 counts. Zero and Span pots are included. 4 & 20mA output adjustments are also included. You can mount the CTT next to, or remotely from your 5A C.T. Just consider the wire resistance (0.0040 Ohms/Foot x 2 for 16 Ga.) and the CTT's internal resistance (0.05 Ohm). It works best if you mount the CTT closest to your C.T.

Note: The C.T. A & W inputs are internally fused with 10A fuse. You should fuse your C.T. output at 8A or less. The V, W & Hz are fused internally with a 4A fuse. Use a <3A externally.

**If You Don't See It
Ask For It!**



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MADE
IN
USA



ORDERING INFORMATION 2-2-12

NOTE: Please READ BEFORE building part number:

1. Digit 1, Option 0 not available with transmitter (display only).
2. See notes at bottom of page.

SIGNAL POWERED TRANSMITTER

Model: CTT - 1 2 3 4

HOUSING TYPE & DISPLAY (1)

- 1.....Din Rail & None
- 2.....Nema 4X & None
- 3.....Nema 4X w/RED LED
- 9.....Custom (Contact OTEK)

INPUT TYPE (2)

- A.....Amps A.C. Isolated
- H.....Hertz A. C. Non-Isolated
- V.....Volts A.C. Non-Isolated
- W.....Watts A.C. Non-Isolated
- 9.....Custom (Contact OTEK)

GRADE (4)

- I.....Industrial
- M.....Mil-Spec (Contact OTEK)
- N.....Nuclear (Contact OTEK)
- 9.....Custom (Contact OTEK)

POWER INPUT (3)

- 0.....Signal Powered
- 1.....External Powered

OTHER RELATED PRODUCTS:

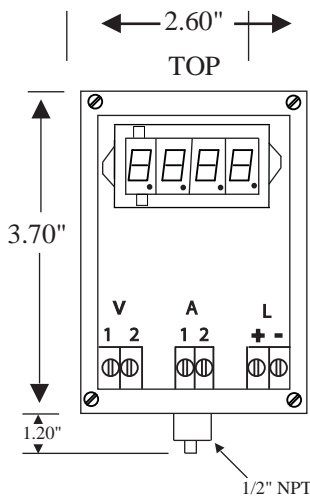
- ACS:** Bargraph and Digital Panel Meters. **AC Signal** powered for V, A, W and Hz.
- LBD, LSB, LPB:** Loop Powered Bargraphs
- LPM, LPE, LPL, LPX:** Loop Powered DPMs
- PMC:** Power Management Controller
- ACL:** AC Signal Powered Loop Transmitter (A, V, W & Hz)
- 900:** Loop Powered Controller

NOTE:

1. Use #9 for custom display scale and offset if other than standard (0-FS=0=10000 counts). D. P. selectable.
2. **WARNING:** V, W and Hz options are **NOT** isolated from outputs. Customer **MUST** use Potential Transformer (P.T.). Transmitter function NOT available in DPM housing (Digit 1, Option 0).
3. 24VDC Ext. Powered Range: >9VDC + your load (burden).
4. OTEK will build to certain nuclear or MIL-Standards, but testing and confirmation of compliance, if required, will need to be done by a third party and at customer's expense.

MECHANICAL

OPTIONS 2 & 3 NEMA 4X

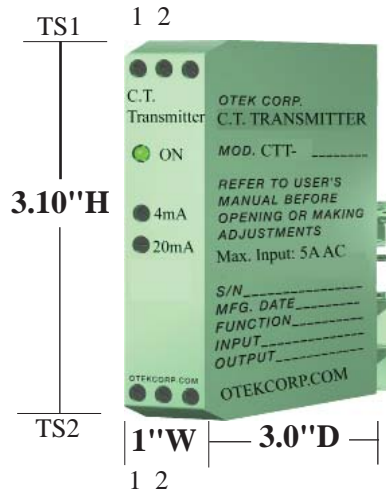


DEPTH 2.70"
MOUNTING
4 HOLES (0.125") ON
3.55"x2.375"

TYPICAL CONNECTIONS

- V1: VAC HIGH
- V2: VAC LOW
- A1: AAC HIGH
- A2: AAC LOW
- L1: +LOOP OUT
- L2: - LOOP OUT

OPTION 1 DIN Rail Mount



Typical Connections

- A) **C.T. Powered Models:**
- C.T. Hi: TS1-1
- C.T. Lo: TS1-2
- + Loop: TS2-1
- Loop: TS2-2
- B) **Externally Powered Models:**
- C.T. Hi: TS1-1
- C.T. Lo: TS1-2
- + Loop: TS2-2
- Loop: TS2-1