

# McGoldrick Construction

8627 Cinnamon Creek #301

San Antonio, Tx 78240

210-690-4585 210-690-4587 FAX

## Transmittal Cover Sheet

Sewer 69th ADA Ft Hood

69th ADA On-Post Sewer Line at Ft Hood, Texas

Project # 1105

Jobsite Tel: Fax:

Date: 8/30/2012

Reference Number: 0054

### Transmitted To

Ron Fournier  
Shelton & Shelton Plumbing, L.P.  
P.O. Box 690159  
Killeen, TX 76549  
Tel: 254-699-2115  
Fax: 254-554-6164

### Transmitted By

Walter Hiatt  
McGoldrick Construction Services Corporation  
8627 Cinnamon Creek, #301  
San Antonio, TX 78240  
Tel: 210-690-4585  
Fax: 210-690-4587

### Package Transmitted For

Use

### Delivered Via

E-Mail

Item #	Qty	Description
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001	1.0	Submittal 26 27 13.10 30-1.1 LonWorks WNC WattNode Electric Meter
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### Remarks

Cc: Company Name	Contact Name	Notes
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McGoldrick Construction Services Corporation San Antonio, TX	Celena Phelps	
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Signature

8/30/12

Signed Date







**WNC-3Y-480-FT10-L**  
**CTS-2000-0800**

# Specifications

## Quantities Measured

- Energy: Real and reactive
- Power: Real and reactive, per phase and sum
- Voltage: Per phase volts
- Current: Per phase amps
- Frequency
- Power Factor: Per phase and average
- Demand: Block or sliding window
- Peak Demand: Value and time

## Quantities Logged

- Date & Time
- Net Energy (A, B, C & Sum)
- Reactive Energy (Sum)
- Positive Energy (Sum)
- Real and Reactive Power (A, B, C & Sum)
- Voltage, Current & Power Factor (A, B, C)
- Demand

## Measurement Configuration

- Three phase: 3-wire or 4-wire
- Single phase: 2-wire or 3-wire

## LonWorks Interoperability

- 40 network variables using Standard Network Variable Types (SNVTs)
- LonMark Version 3.4

## User Controlled Inputs

- Set CT size in amps
- Set demand window type and period
- Reset peak demand to zero
- Set time of day

## Accuracy

- 0.5% nominal (see manual for details)
- Time: ± 2 minutes a year (battery backed)

## Electrical

- Operating Voltage Range: 80% - 115% of nominal
- Power Line Frequency Range: 50 to 60 Hz

## Environmental

- Temperature: -30 °C to 55 °C
- Humidity: 5 to 90% RH (noncondensing)

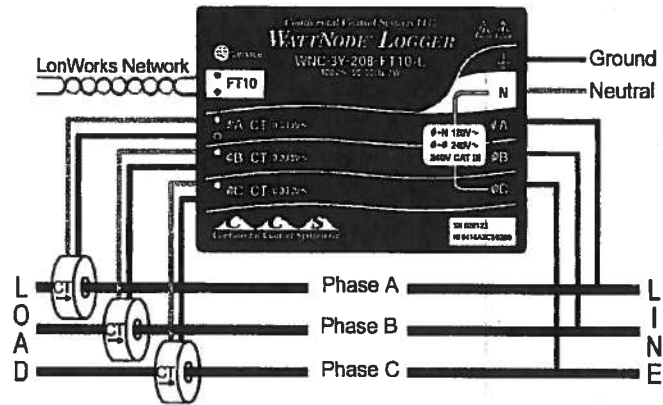
## Mechanical

- Enclosure: High impact, UL rated, ABS plastic
- Size: 3.3" x 5.6" x 1.5" (includes mounting tabs)
- Connectors: Detachable screw terminals (22-12 AWG)

**MADE IN THE USA**  
**(888) 928-8663**

# WATTNODE® LOGGER

AC Power Measurement for LonWorks®



## MODELS

Model	VAC		Phases	Wires
	Line To Neutral	Line To Line		
WNC-3Y-208-FT10-L	120	208-240	3*	4
WNC-3Y-400-FT10-L	230	400	3*	4
→ WNC-3Y-480-FT10-L	277	480	3*	4
WNC-3Y-600-FT10-L	347	600	3*	4
WNC-3D-240-FT10-L	N/A	208-240	3	3
WNC-3D-400-FT10-L	N/A	400	3	3
WNC-3D-480-FT10-L	N/A	480	3	3

\*Can be used to measure 1, 2 or 3 phase circuits.

## OPENING CURRENT TRANSFORMERS (SPLIT CORE)

Model	Inside Diameter	Rated Amps
CTS-0750	0.75"	5, 15, 30, 50, 70, 100, 150, 200
CTS-1250	1.25"	70, 100, 150, 200, 250, 300, 400, 600
→ CTS-2000	2.00"	600, 800, 1000, 1200, 1500
CTB	Bus Bar	600, 800, 1200, 2000, 3000 (custom)

## TOROIDAL CURRENT TRANSFORMERS (SOLID CORE)

Model	Inside Diameter	Rated Amps
CTT-0300	0.30"	5, 15, 20, 30
CTT-0500	0.50"	15, 20, 30, 50, 60
CTT-0750	0.75"	30, 50, 70, 100
CTT-1000	1.00"	50, 70, 100, 150, 200
CTT-1250	1.25"	70, 100, 150, 200, 250, 300, 400

Current Transformer Output Voltage: 0 - 0.333 VAC @ rated current



**Continental Control Systems**

3131 Indian Road, Suite A  
 Boulder, CO 80301

(303) 444-7422 Fax (303) 444-2903

sales@ccontrolsys.com

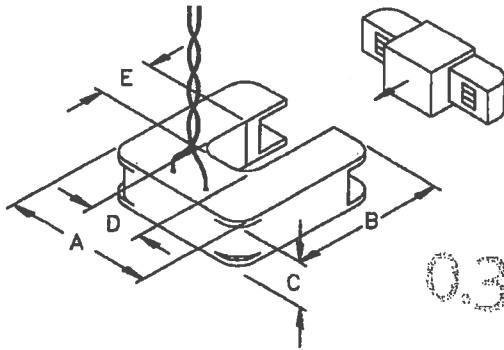
www.ccontrolsys.com

**WNC-3Y-480-FT10-L**  
**CTS-2000-0800**

**Continental Control Systems**

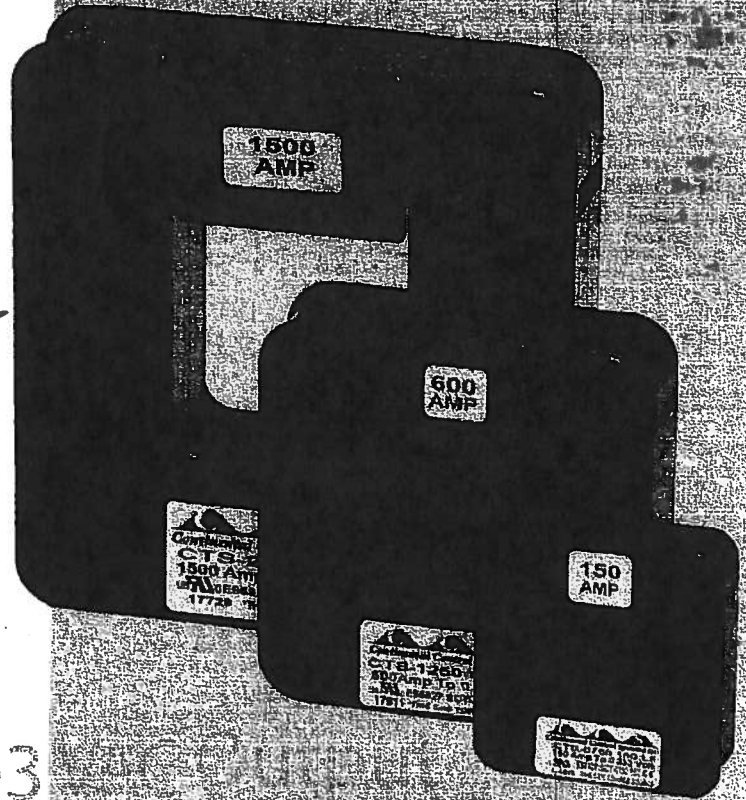
PLIT CORE current transformers make installation easier because they can be installed without disconnecting the circuit being measured. Split-core current transformers are available in a range of stock sizes and rated currents to meet your measurement

Model		Model		Model	
CTS-0750-(xxx) 0.75" I.D.		CTS-1250-(xxx) 1.25" I.D.		CTS-2000-(xxx) 2.00" I.D.	
Rated Amps	Model Suffix (xxx)	Rated Amps	Model Suffix (xxx)	Rated Amps	Model Suffix (xxx)
5	-005	70	-070	400	-400
15	-015	100	-100	600	-600
30	-030	150	-150	800	-800
50	-050	200	-200	1000	-1000
70	-070	250	-250	1200	-1200
100	-100	300	-300	1500	-1500
150	-150	400	-400		
200	-200	600	-600		



Size	CTS-0750	CTS-1250	CTS-2000
A	2.00 in. 5.08 cm	3.25 in. 8.25 cm	4.75 in. 12.1 cm
B	2.10 in. 5.33 cm	3.35 in. 8.51 cm	5.00 in. 12.7 cm
C	0.61 in. 1.55 cm	1.00 in. 2.54 cm	1.20 in. 3.05 cm
D	0.75 in. 1.91 cm	1.25 in. 3.18 cm	2.00 in. 5.08 cm
E	0.75 in. 1.91 cm	1.25 in. 3.18 cm	2.00 in. 5.08 cm

**SPLIT CORE**  
**CURRENT TRANSFORMERS**



**(888) 928-8663**



3131 Indian Road, Suite A  
 Boulder, CO 80301 USA  
 (888) 928-8663 Fax (303) 444-2903  
 sales@ccontrolsys.com  
 www.wattnode.com

- No exposed metal parts on assembled transformer.
- Internal precision burden resistor across secondary.
- Epoxy encapsulated housing.
- Leads-8ft. twisted pair, 22 AWG.
- Core interleaved at joints for accuracy.
- Phase angle is measured at 50% of rated current.
- UL & CE recognized for voltages up to 600VAC.
- 0.333 VAC output at rated current.
- Accuracy  $\pm 1\%$  from 10% to 130% of rated current..
- Phase angle < 2 degrees for CTS-0750 models >70Amps & CTS-1250 models >150Amps.
- Snap closing/opening feature.
- RoHS Compliant