Series K3000 Single Phase Kilowatt Hour Meter



Features:

Six Digit kWh LCD Display (no multipliers)
Voltage Per Phase
Amperage Per Phase
kW Per Phase
Remote CT Operated (up to 10,000 Amps)
kWh Pulse (Form A Relay)
RS 485 Modbus Communications (included

RS 485 Modbus Communications (included)
Plug In Terminals for Field Testing
Rate LED Indicates Relay Operation
LCD Display Shows Correct / Incorrect Wiring

Specifications:

NEMA 1 Painted Steel Enclosure Temp Range: -10 – 120 Degrees F Humidity: 95% Non Condensing

Pulse Relay: 120 VAC .5 Amp Resistive

Meter Consumption: 0.2 Amps Burden: CT Burden 0.6 VA

Isolated CT Circuit

Microprocessor Based - Ram Based - No Batteries

Accuracy:

Power: 0.5% Energy: 0.2% ANSI C12.16

Compliance:

Accuracy: ANSI C12.20 FCC: Class A Part 15 UL/CUL/CSA Listed Michigan Compliant NYC Approved

Current Transformers:

Includes 2 – LX400 CTs (+/- 1% between 4 – 400 Amps)

Other Solid Core - Bar Type - Split Cores CTs up to 10,000 Amps Available

Communication Options:

Hard Wired Modbus Data— (up to 255 meters on one 2 wire circuit) Ethernet Converter (for direct Internet connection through LAN)



Models:

Kilowatt Hour Meters:

K3223 120/208/240 VAC 3 Wire K3240 240 VAC 2 Wire K3277 277 VAC 2 Wire

Meter Option:

New Work Kit with Rough In Ring and Flush Cover Old Work Kit with Flanged Box and Flush Cover

Software:

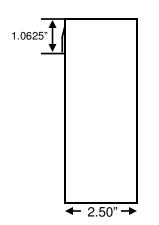
Reading & Billing (R&B v2.0)
Power Analyzing and Trending (Powerstudio)

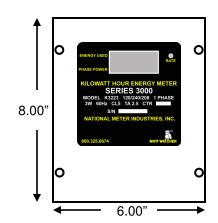


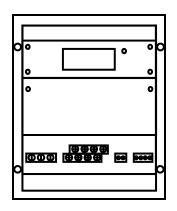




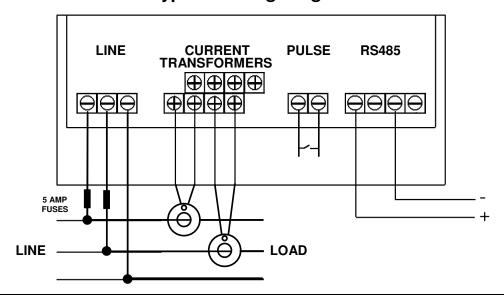
Series 3000 Dimensions



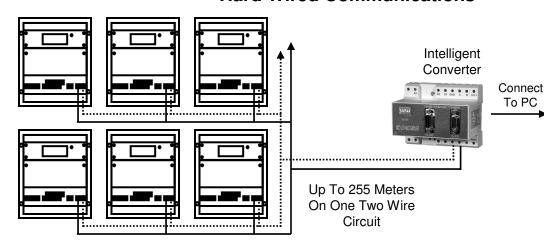




Typical Wiring Diagram



Hard Wired Communications



On Site PC Connected To NET For Off Site Readings



Software: Reading & Billing V2.0 Powerstudio

LX400 Solid Core Current Transformer



Features:

The "LX" Series CT is our most popular Solid Core Current Transformer. It is offered in a Ratio of 400:5 and comes with three feet of #18 AWG wire attached. The accuracy range of this CT is +/- 1% from 1% through 100% loading.

Example:

The LX400 CT is \pm 1% between 4 – 400 AMPS.

Standards:

ANSI C57.13

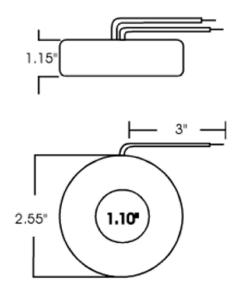


Larger Solid Core, Split Core and Bar Type CTs are available from 5 – 10,000 AMPs.

High Voltage 5kV – 34.5kV CTs are also available to meet any application.

Dimensions





TYPICAL ON SITE SYSTEM

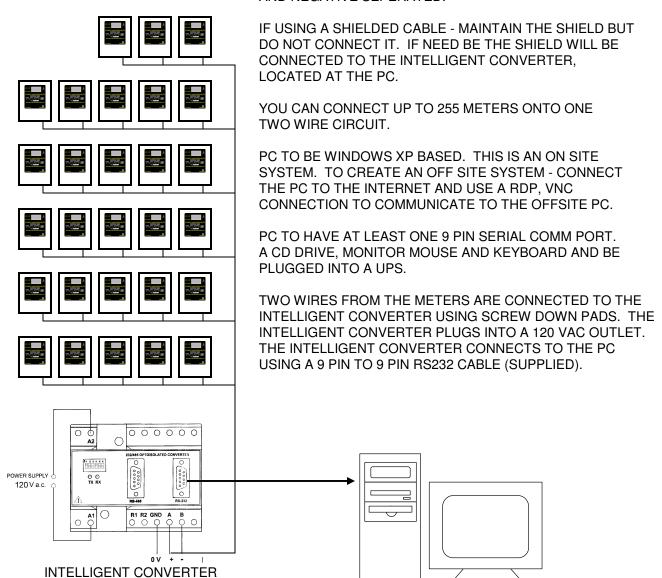
NOTES:

EACH METER HAS A UNIQUE ADDRESS PROGRAMMED INTO IT, USED BY THE SOFTWARE, FOR IDENTIFICATION.

METERS' COMMUNICATION IS MODBUS RS485 RTU.

THIS IS A TWO WIRE SYSTEM.

INTERCONNECT METERS USING EITHER 18/2 TWISTED SHIELDED OR 2 PAIRS OF A CAT 6 CABLE. KEEP POSITIVE AND NEGATIVE SEPERATED.



NATIONAL METER INDUSTRIES, INC.

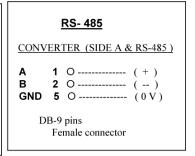


RS485 / RS232 Intelligent Converter

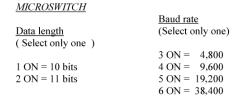
Features:

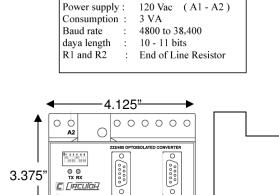
Connect Up To 255 Meters onto One Two Wire Circuit Communicate with Meters up to One Mile Away











R1 R2 GND

3.00" -

Characteristics:

0

Reading & Billing V 2.0 Software



Reading & Billing V2.0 software is a simple Windows[™] based software package that allows the end-user to manually or automatically read National meters having RS485 Modbus communications. This system comes with unlimited / unabused telephone support and unlimited downloads, from an FTP site, in case of PC upgrade or hard drive corruption.

R&B V2.0 polls the meters for current kWh readings and saves the readings for trending and billing purposes. Offers the ability to build a customized Rate schedule, view past meter usage and view each meter's programming and current data to confirm proper meter installation.

Reading & Billing V 2.0 Software

