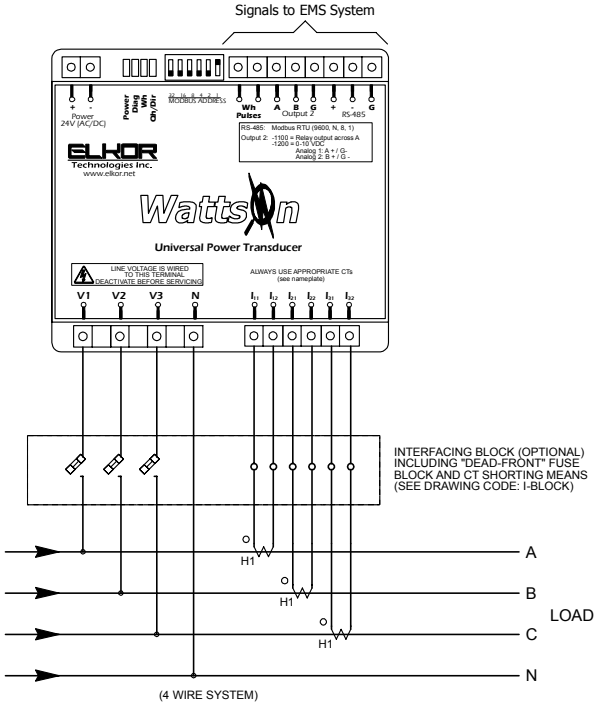
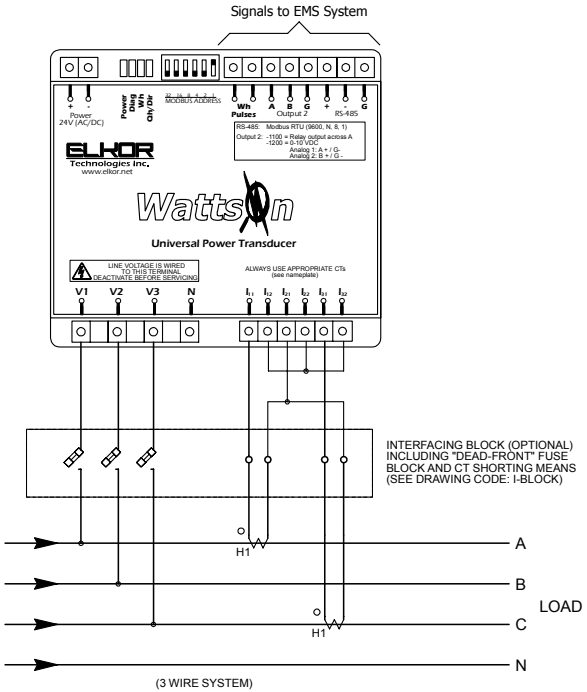
# WattsOn Application Wiring




## Four-Wire System




## Three-Wire System (using 5A CTs)

c UL us

ELKOR Technologies Inc.

PRECISION. INNOVATION. ENGINEERED.

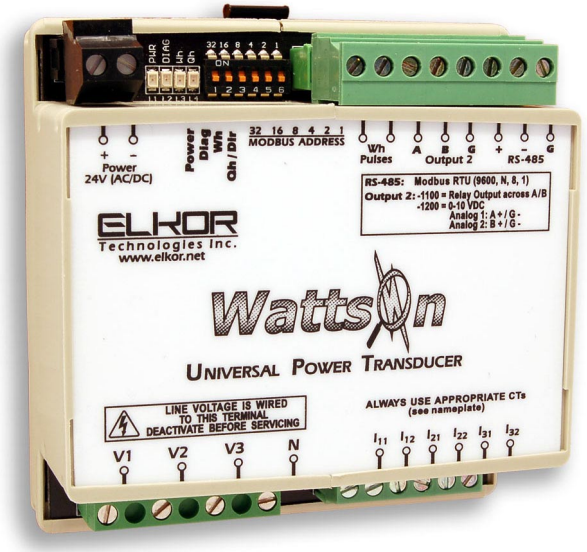

6 Bainard Street
London, Ontario
N6P 1A8

Toll free: 1.888.539.6866
Tel: 519.652.9959

www.elkor.net


ELKOR Technologies Inc.

PRECISION. INNOVATION. ENGINEERED.




# WattsOn®

## UNIVERSAL POWER TRANSDUCER

## Features:

- ANSI C12.20 Class 0,5 Accuracy compliant
- Supports IEC 60687, IEC 61036, IEC 61268, IEC 62053-21, IEC 62053-22 & IEC 62053-23 Class 0.5
- Interfaces with almost ANY CT including: 5A, mA, 333mV, 500mV, 1000mV, Solid Core, Split Core, Rogowski Coil, etc.
- Universal 24 VAC/VDC power supply
- DIN Mount
- True RMS parameters per phase: Voltage, Current, Power, Energy (W, VA, VAR), frequency, power factor
- High resolution (24-bit ADCs) with 16kHz sampling for high harmonics measurements.
- Standard RS-485 (Modbus) communications
- Integer and floating point data transfer
- Compatible with 3-Phase/3-wire, 3-Phase/4-wire, split and single phase configurations
- Four-quadrant energy and demand calculations
- Per phase import/export energy accumulation.
- Two Pulse outputs, one for Wh, and the other configurable for VARh or direction of active power.
- Optional 0-10VDC analog outputs
- Optional remote display
- FCC Part 15 / EN55022 Class B (approved for residential use)


WattsOn® Universal Power Transducer provides not only accurate three-phase measurements but also comprehensive per phase information, including Volts, Amps, Real Power, Reactive Power, Apparent Power, Watt-hours, VAR-hours, VA-hours, Power Factor and Frequency.

All data is available via the RS-485 (Modbus RTU) output port. In addition, two solid-state relays provide pulses for Wh and Qh (or Wh and direction of power flow). Optionally, the second pulse output may be substituted for two 0-10VDC outputs that may represent any instantaneous parameter that the meter measures. Both analog outputs and their scaling may be field selected and adjusted by the user via Modbus.

The RDM (Remote Display Module) (optional) communicates via the RS-485 line and may act as either an RTU Master or "snoop" whereby it eaves drops on the communications between the WattsOn and the RTU master to obtain its data parameters. The graphical LCD display may be configured to display information based on various WattsOn wiring options, and features a large font mode for easy viewing.


WattsOn-RDM: comprehensive information at the location you choose.