

# Specifications

## Model: 340N2



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### **Btu Transmitter w/ N2 Communications Protocol**

The energy transmitter shall be a microprocessor based unit which accepts one flow and two temperature inputs to compute Flow Rate, Flow Total, Delta T, Energy Rate, and Energy Total. Flow inputs shall be either pulse or sine wave, with selectable units of measure. Temperature inputs shall be from 10k ohm thermistors, with field selected units of °F or °C .

A Windows® based programming kit consisting of software and communications cable shall be used to assign an N2 address and program for pipe size, units of measure and output pulse configuration. The programming kit also shall permit viewing of the configuration, Flow Rate, Flow Total, Energy Rate, Energy Total, and the two Temperatures.

One output shall be an isolated solid-state switch, which can be configured in the field as a scaled pulse output to represent either flow or energy at various resolutions and pulse widths. A non-volatile memory, requiring no battery back up shall protect the data from power losses. A second output shall use the Johnson Controls N2 communications protocol to send inlet and outlet temperatures, delta t, flow rate, and flow total from as many as 255 units on a simple 3-wire bus.

The transmitter shall operate on power of 12-24 VDC or 12-24VAC and have a ground lug to maximize EMI protection when necessary. The transmitter may be wall or panel mounted up to 500 feet from the sensors. DIN Rail Clips, Metal or Plastic enclosure options shall be available.

The flow transmitter shall be Data Industrial Model 340N2-XX.