

BTU Transmitter w/ BACnet® Communications Protocol

The energy transmitter shall be a microprocessor based unit which accepts one flow and two temperature inputs to compute real time flow rate, flow total, delta T, energy rate, and energy total with selectable units of measure. Flow inputs shall be either pulse or sine wave. Temperature inputs shall be from 10k Ohm thermistors, 100 Ohm RTD's, or 1000 Ohm RTD's with field selected units of °F or °C .

A Windows® based programming kit consisting of software and communications cable shall be used to assign a BACnet® address and program for pipe size, units of measure and type of flow sensor and temperature sensor. The programming kit also shall permit viewing of the configuration, flow rate, flow total, energy rate, energy total, and the two temperatures.

A non-volatile memory, requiring no battery back-up shall protect the data from power loss. Signal output shall use the BACnet® communications protocol to send inlet and outlet temperatures, delta T, flow rate, and flow total 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 340BN-XX.