

BTU-3

The BTU-3 BTU metering unit is a microprocessor based controller for metering up to three zones.

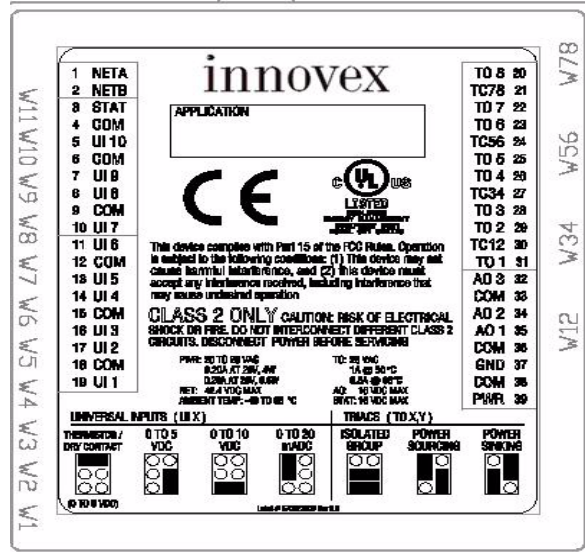
Overview

Analog inputs are provided for the supply water temperature, return water temperature and the flow for up to three zones.

The controller is based on the LONWORKS® networking technology. The controller can be networked to a higher-level control system for monitoring and control applications.

Features

- Supply water temperature measurement for up to three zones
- Return water temperature measurement for up to three zones
- Flow for up to three zones
- Calculation of momentary Energy Rate, Flow Rate for up to three zones
- Accumulation of BTU's per day and in total for up to three zones
- Accumulation of Volume per day and in total for up to three zones
- 30 day back logs for Energy consumption and Flow for up to three zones
- Renaming of zones/consumers up to 7 Characters
- Pipe sizes of 1/4", 1/2", 3/4" and 1 1/4" (up to 55GPM)
- Configurable for different Flow Meter sizes
- Configurable for different Water-Glycol ratios
- LONWORKS® interface to building automation systems and host products
- Automatic configuration with a Local Control Interface (LCI) touchscreen



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Specifications

Electrical

Inputs

- Cabling: twisted shielded pair, 18 AWG recommended—500 feet max. (152 meters)
- Resolution: 10 bit

Supply Water Temperature, Flow for three different zones

- 0-5 Volts DC

Return Water Temperature for three different zones

- Precon Type III 10K thermistor

FTT-10A Network

- Speed: 78 KBPS
- Cabling: Maximum node-to-node distance: 1312 feet (400 meters)
- Maximum total distance: 1640 feet (500 meters)
- 42.4 Volts DC max

Mechanical

Housing

- Dimensions: PCA: 5.35" W (135.9 mm) X 4.05" H (102.9 mm) X 1.25" D (31.8 mm), Enclosed: 4.9" (124.5 mm) X 5.4" (137.2 mm) X 1.4" (35.6 mm)
- ABS Polycarbonate

Weight

- Controller Weight: 0.45 pounds (0.22 kilograms)
- Shipping Weight: 0.60 pounds (0.28 kilograms)

Electronics

- Processor: 3150 Neuron 10 MHz
- Flash: 48 Kilobytes
- SRAM: 8 Kilobytes
- Termination: 0.197" (5.0 mm) Pluggable Terminal Blocks, 14-22 AWG

Environmental

- Temperature: -40 °F to 185 °F (-40 °C to 85 °C)
- Humidity: 0 to 90%, non-condensing

Agency Listings

- UL916

Agency Compliances

- FCC Part 15 Class A
- CE

Table 1: Network Wire Specifications

Cable Type	Pairs	Details	Connect Air Catalog No.
Level 4 22AWG (0.65mm)	1	Unshielded, Plenum, U.L. Type CMP	W221P-2001
Level 4 22AWG (0.65mm)	1	Unshielded, Non-Plenum, U.L. Type CM	W221P-1002

For detailed specifications, refer to the FTT-10A Free-Topology Transceiver User's Guide published by Echelon Corporation. For information on ordering Connect Air items, contact Connect Air International; 4240 B Street; Auburn, WA 98001 <www.connect-air.com>.

Power

Power Requirements

- 24 VAC nominal (requires an external supply)

Power Consumption

- With no external loads: 15 VA