

- A Control box mounted on the side of each TRU by the equipment manufacturer.
- B Not used.
- C Primary power by Division 16 electrical contractor.
- Transformer panel and secondary power by ATC. Note : location and number of panels and transformers shall be determined by the ATC Contractor.
- E Damper Actuator and TEC by ATC Contractor.
- Electronic Room Sensor and wall box by ATC. Mounting height - 60" AFF.
- G Electronic Reheat Valve furnished by ATC and installed in piping system by Mechanical Contractor.

H Not used.

- At each control box provide a toggle type switch (TS) suitable for 24 VAC mounted in a junction box on the side of each control box.
- 2.#14 AWG stranded wires (24 VAC) in 3/4" EMT daisy chain between each TRU by ATC.
- K 1-#20 TSP cable in 3/4" EMT to field panel by ATC.
- Pre-terminated cable (6 wire) in 1/2" EMT between Room Sensor and TEC by ATC. See Note 'F' for rough in mounting height of Room Sensor.
- 3-#14 AWG stranded wires between TEC and Reheat Valve by ATC.

Not Used.

- O Not Used.
- B Supply Air Temperature Sensor furnished and installed by ATC.
- O Disconnect switch by ATC.

Legend :

- ATC Automatic Temperature Controls
- * TEC Terminal Equipment Controller
- TSP Twisted Stranded Pair
- * DA Damper Actuator
- DS Disconnect Switch
- JB Junction Box
- T Transformer
- * TS Toggle Type Disconnect Switch
- TRU Terminal Reheat Unit
- SA Supply Air

 This equipment can be either field installed by ATC or shipped to TRU manufacturer by ATC for factory mounting by equipment manufacturer.







- A Control box mounted on the side of each TRU by the equipment manufacturer.
- B Control box and retrofit kit for each existing TRU. See specifications for additional information.
- C Primary power by Division 16 electrical contractor.
- (D) Transformer panel and secondary power by ATC. Note : location and number of panels and transformers shall be determined by the ATC Contractor.
- (E) Damper Actuator and TEC by ATC Contractor.
- (F) Electronic Room Sensor and wall box by ATC. Mounting height - 60" AFF.
- Electronic Reheat Valve furnished by ATC and installed in piping system by Mechanical Contractor.
- (H) Existing Pneumatic Reheat Valve to be reused. See specifications for additional information.

- (1) At each control box provide a toggle type switch (TS) suitable for 24 VAC mounted in a junction box on the side of each control box.
- (J) 2-#14 AWG stranded wires (24 VAC) in 3/4" EMT daisy chain between each TRU by ATC.
- (K) 1-#20 TSP cable in 3/4" EMT to field panel by ATC.
- Pre-terminated cable (6 wire) in 1/2" EMT between Room Sensor and TEC by ATC. See Note 'F' for rough in mounting height of Room Sensor.
- 3.#14 AWG stranded wires between TEC and Reheat Valve by ATC.
- N Pneumatic Transducer with air line to existing valve and TEC by ATC.
- O Pneumatic air supply to Transducer by ATC.
- P Supply Air Temperature Sensor furnished and installed by ATC.
- (Q) Disconnect switch by ATC.

Legend :

- ATC Automatic Temperature Controls
- * TEC Terminal Equipment Controller
- TSP Twisted Stranded Pair
- DA Damper Actuator
- DS Disconnect Switch
- JB Junction Box
- T Transformer
- * PT Pneumatic Transducer
- * TS Toggle Type Disconnect Switch
- TRU Terminal Reheat Unit
- SA Supply Air
- This equipment can be either field installed by ATC or shipped to TRU manufacturer by ATC for factory mounting by equipment manufacturer.

DDC & Pneumatic Controls

Typical BAS Wiring Diagram - TRU



- A Control box mounted on the side of each TRU by the equipment manufacturer.
- B Control box mounted on the side of each ETU by the equipment manufacturer.
- C Primary power by Division 16 electrical contractor.
- Transformer panel and secondary power by ATC. Note : location and number of panels and transformers shall be determined by the ATC Contractor.
- Damper Actuator and/or TEC by ATC Contractor.
- Electronic Room Sensor and wall box by ATC. Mounting height - 60" AFF.
- Electronic Reheat Valve furnished by ATC and installed in piping system by Mechanical Contractor
- H Existing Pneumatic Reheat Valve to be reused. See specifications for additional information.

- O At each control box provide a toggle type switch (TS) suitable for 24 VAC mounted in a junction box on the side of each control box.
- 2-#14 AWG stranded wires (24 VAC) in 3/4" EMT daisy chain between each TRU by ATC.
- (K) 1-#20 TSP cable in 3/4" EMT to field panel by ATC.
- C Pre-terminated cable (6 wire) in 1/2" EMT between Room Sensor and TEC by ATC. See Note 'F' for rough in mounting height of Room Sensor.
- 3-#14 AWG stranded wires between TEC and Reheat Valve by ATC.
- N Pneumatic Transducer with air line to the TEC by ATC.
- O Pneumatic air supply to Transducer by ATC.
- Supply Air Temperature Sensor furnished and installed by ATC.
- (Q) Disconnect switch by ATC.

Legend :

- ATC Automatic Temperature Controls
- * TEC Terminal Equipment Controller
- TSP Twisted Stranded Pair
- * DA Damper Actuator
- DS Disconnect Switch
- JB Junction Box
- T Transformer
- VS Velocity Sensor
- TRU Terminal Reheat Unit
- ETU Exhaust Terminal Unit
- LFH Laboratory Fume Hood
- * PT Pneumatic Transducer
- * TS Toggle Type Disconnect Switch
- SA Supply Air
- This equipment can be either field installed by ATC or shipped to TRU manufacturer by ATC for factory mounting by equipment manufacturer.

DDC & Pneumatic Controls

Typical BAS Wiring Diagram - TRU, ETU & LFH



- A Control box mounted on the side of each TRU by the equipment manufacturer.
- B Control box mounted on the side of each ETU by the equipment manufacturer.
- C Primary power by Division 16 electrical contractor.
- Transformer panel and secondary power by ATC. Note : location and number of panels and transformers shall be determined by the ATC Contractor.
- E Damper Actuator and/or TEC by ATC Contractor.
- Electronic Room Sensor and wall box by ATC. Mounting height - 60" AFF.
- G Electronic Reheat Valve furnished by ATC and installed in piping system by Mechanical Contractor.
- H Not Used.

- At each control box provide a toggle type switch (TS) suitable for 24 VAC mounted in a junction box on the side of each control box.
- 2.#14 AWG stranded wires (24 VAC) in 3/4" EMT daisy chain between each TRU by ATC.
- (K) 1-#20 TSP cable in 3/4" EMT to field panel by ATC.
- Pre-terminated cable (6 wire) in 1/2" EMT between Room Sensor and TEC by ATC. See Note 'F' for rough in mounting height of Room Sensor.
- 3-#14 AWG stranded wires between TEC and Reheat Valve by ATC.
- Not Used

O Not Used

- Supply Air Temperature Sensor furnished and installed by ATC.
- Disconnect switch by ATC.

Legend :

- ATC Automatic Temperature Controls
- * TEC Terminal Equipment Controller
- TSP Twisted Stranded Pair
- * DA Damper Actuator
- DS Disconnect Switch
- JB Junction Box
- T Transformer
- VS Velocity Sensor
- TRU Terminal Reheat Unit
- ETU Exhaust Terminal Unit
- LFH Laboratory Fume Hood
- * PT Not Used
- * TS Toggle Type Disconnect Switch
- SA Supply Air
- This equipment can be either field installed by ATC or shipped to TRU manufacturer by ATC for factory mounting by equipment manufacturer.

DDC Controls

Typical BAS Wiring Diagram - TRU, ETU & LFH



- A Control box mounted on the side of each TRU by the equipment manufacturer.
- B Control box mounted on the side of each ETU by the equipment manufacturer.
- C Primary power by Division 16 electrical contractor.
- D Transformer panel and secondary power by ATC. Note : location and number of panels and transformers shall be determined by the ATC Contractor.
- E Damper Actuator and/or TEC by ATC Contractor.
- (F) Electronic Room Sensor and wall box by ATC. Mounting height - 60" AFF.
- G Electronic Reheat Valve furnished by ATC and installed in piping system by Mechanical Contractor

H Not Used.

- O At each control box provide a toggle type switch (TS) suitable for 24 VAC mounted in a junction box on the side of each control box.
- J daisy chain between each TRU by ATC.
- (K) 1-#20 TSP cable in 3/4" EMT to field panel by ATC.
- D Pre-terminated cable (6 wire) in 1/2" EMT between Room Sensor and TEC by ATC. See Note 'F' for rough in mounting height of Room Sensor.
- 3-#14 AWG stranded wires between TEC and Reheat Valve by ATC.
- Not Used.

O Not Used.

- P Supply Air Temperature Sensor furnished and installed by ATC.
- O Disconnect switch by ATC.

Legend :

- ATC Automatic Temperature Controls
- Terminal Equipment Controller * TEC
- TSP Twisted Stranded Pair
- * DA Damper Actuator
- Disconnect Switch DS
- JB Junction Box Transformer
- VS Velocity Sensor

Т

- Terminal Reheat Unit TRU
- ETU Exhaust Terminal Unit
- LEH Laboratory Fume Hood
- * PT Not Used
- * TS Toggle Type Disconnect Switch
- SA Supply Air
- * This equipment can be either field installed by ATC or shipped to TRU manufacturer by ATC for factory mounting by equipment manufacturer.

DDC Controls

Typical BAS Wiring Diagram - TRU & ETU