

# Field Commander™

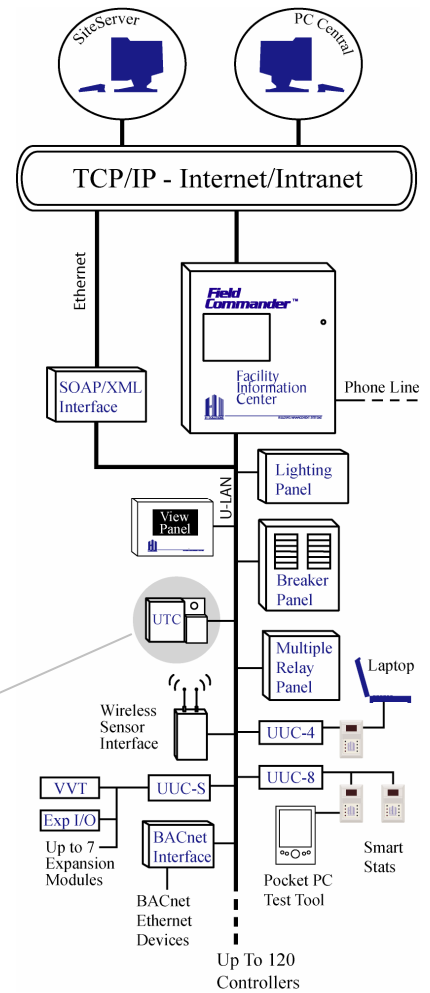
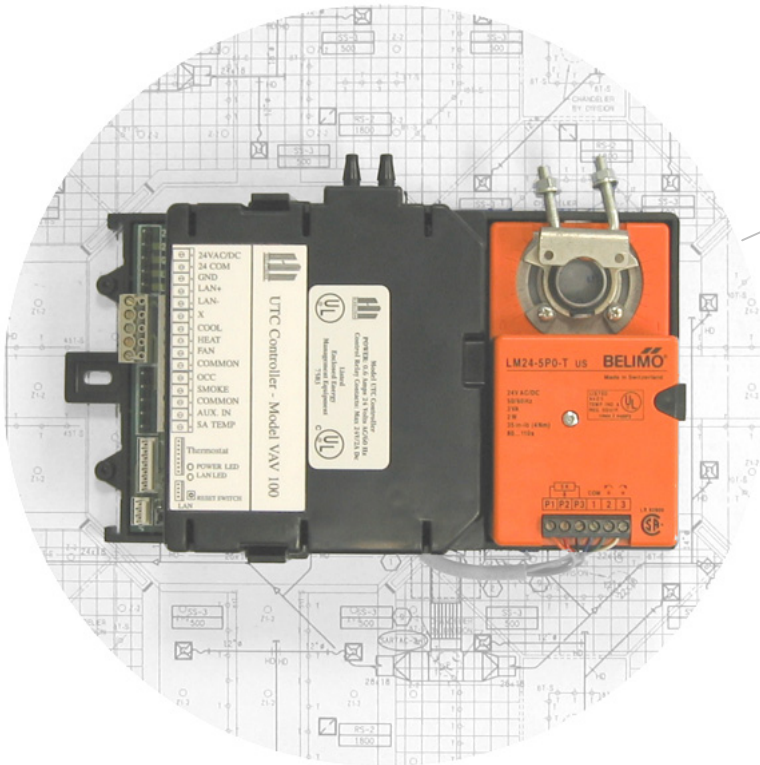
## Universal Terminal Controller

### Overview

The H I Solutions Universal Terminal Controller (UTC) unit is an integrated controller package providing a Universal Unitary Controller, Damper Actuator, and Air Flow Sensor. The unit is a compact, modular housing containing the controller printed circuit board and the electronic direct coupled actuator. An optional airflow differential pressure sensor is available for flow measurement.

The UTC is fully programmable and capable of stand-alone operation or being networked as a peer on the RS-485 U-LAN. The UTC may be user programmed to provide custom control functions or loaded with H I Solutions standard databases. Standard databases for DDC control of such devices as VAV, PIU, Multi-zone, and RTU may be user modified to accommodate special needs.

The UTC contains a microprocessor, memory, switching power supply, clock/calendar, digital and analog control outputs, digital and analog inputs, and LAN interface. It provides user defined device schedules, interactive monitoring and control, trend data collection, automatic backup control and complete integration with the H I Solutions Field Commander Building Management System.



Universal Terminal Controller		016 – 654X-XXXX
Damper Actuator	0-95°	
Up to 3 Universal Outputs:	Relay Outputs (Dry Contacts or Switched 24 VAC) Universal Analog Outputs (4 - 20 mADC or 0 - 10 VDC)	
Inputs:	Air Flow Transducer Actuator Position Room Thermostat with Space Temperature, Local Override Request, Setpoint Adjustment, LAN Network Access Port, and Optional Digital Status Display and Control Panel. Universal Inputs (4) accept Dry Contact Digital, 0 - 5 VDC, or 4 - 20 MADC (2 also accept 10K Thermistor Direct Analog Inputs)	
LAN:	RS-485, 9600 Baud	
Input Power:	24V VAC/DC	
Connections:	Screw Terminals, Quick Disconnect	
Angle of Rotation:	95 Degrees	
Rotation Time:	90 Sec. nominal	
Housing:	Flame Retardant ABS Plastic, UL94-5V, Plenum-rated	
Unit Housing:	9" X 5-1/4" X 2-1/2"	
Orientation:	Left, Right, or Vertical	
Accuracy:	1% FSO	
Pressure Range:	0 - 1" wc (Optional ranges available)	
Pressure Connections:	3/16" ID tubing	

**UNIVERSAL TERMINAL CONTROLLERS**

The UTC is available in the Basic Unit and, with various options, may be used as RTU, VAV and HP controllers. The Basic Unit configurations differ in the number of relay outputs or analog DDC outputs supported. Option letters specify the type of actuator and differential pressure sensor. The various configurations available for the UTC require that the model numbers fully specify the hardware configuration desired.

- 016-6540-XXXX = UTC-000
- 016-6541-XXXX = UTC-100
- 016-6542-XXXX = UTC-200
- 016-6543-XXXX = UTC-300

Each UTC supports one standard unitary thermostat.

**Model 000**

Has 3 analog DDC outputs and four universal/analog inputs.

**Model 100**

Has 1 digital output relay, two analog DDC outputs and four universal/analog inputs.

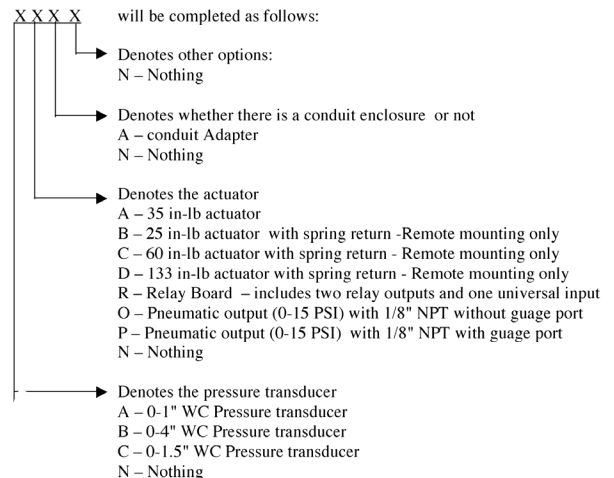
**Model 200**

Has 2 digital output relays, one analog DDC output and four universal/analog inputs.

**Model 300**

Has 3 digital output relays and four universal / analog inputs.

On a purchase order for more than 25 universal terminal controllers, a database may be specified for factory loading. The database may be an HI-S standard database or a customer supplied database.



## About H I Solutions

Since 1974 H I Solutions has provided innovative and cost-effective solutions for building management needs with computer-based automation systems for industrial, commercial, office, retail, educational, and healthcare facilities. Our distribution channels include a network of Independent Distributors, OEM, and National Accounts. Headquartered outside Atlanta, Georgia, H I Solutions is committed to offering quality engineering and performance, low overall cost, and unparalleled customer service.

