SUBMITTAL

DIGIHP
*Digital Communicating
Heat Pump Thermostat*

DESCRIPTION

The Zonex Systems DIGIHP is a microprocessor based, auto changeover, 2-stage Cool / 3-stage Heat digital communicating Heat Pump thermostat. The DIGIHP is used exclusively with the *ZonexCommander* family of DDC systems. The thermostat has a large, easy-to-read LCD display with a distinctive grey backlight. Display backlight is continuously ON in the Occupied mode, and goes OFF in the Unoccupied mode. The DIGIHP is shipped for "O" mode reversing valve operation but may be changed in the field for "B" operation.

The DIGIHP is very easy to configure through the system program or to make manual adjustments using the buttons located on the front cover.

In the event of power loss, the setpoints are stored in a non-volatile memory, without need for battery backup.

The space ambient temperature is continually displayed with large, easy-to-read numbers. The temperature display range is 55° to 95° F. FAN mode, Heat or Cool setpoints, and operation modes including Emergency Heat are all indicated on the display.

Programmed setpoints can be manually adjusted at the thermostat or electronically locked through the software, to provide limited manual setpoint adjustment. Two-hour override is provided for after-hours temporary operation with a touch of a button.

TECHNICAL DATA

Electrical:

Supply Voltage: 24vac
Power consumption: 4 VA maximum
Input:
- 24vac
- Platinum Thermistor

Output:
- Triac, 24vac @ 0.3A

Communication: RS-485
Twisted pair or shielded twisted pair

Environmental:
Operating temperature*:* 35 to 130° F (2 to 54° C)
Operating humidity: 5-95% non-condensing
Storage temperature: 0 to 150° F (-18 to 66° C)

General:
Dimensions: 4 1/2" H x 2 7/8" W x 1" D
Range: 55 to 95 ° F.
Accuracy: +/- 0.8° F.
Memory: Non-volatile EEPROM
Display: Grey backlit LCD

Rev 2/4/10

DIGIHP DIGITAL COMMUNICATING HEAT PUMP THERMOSTAT

TERMINAL FUNCTIONS

24V Terminal Block
Y1 - First stage heat / cool
Y2 - Second stage heat / cool
W2 - Auxiliary heat
G   - Fan
R   - 24vac power
C   - 24vac common
O/B- Reversing valve output
18 ga minimum wire size

Communication Terminal Block
TX - Data transmit
RX - Data receive
TX - Data transmit
RX - Data receive
Twisted pair or shielded twisted pair

FEATURES

- Stand alone control
- 2C/3H, auto changeover
- Attractive compact design
- No batteries required
- Neutral, off white color
- Accurate temperature control
- Electronic Lock feature

- Large backlit display
- Continuous or intermittent fan option
- Display illuminated during Occupied mode
- Non-volatile memory: Retains temperature setpoints
- Function buttons on front cover for easy access
- RS-485 communication

ACCESSORIES

Part No.	Description
DIGIHPC	For Celsius version add "C" to thermostat Part No.
DIGIHPRS	DIGIHP thermostat configured with remote sensor
WPLT	Wall Plate - when upgrading VVT and VVHC thermostats