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Project Name: _____

Location: _____

IDN# _____ Quantity: _____

Catalog# _____

CAT NO. **iStat/Pro**

Communicating Thermostat

Remote Monitoring Keeps HVAC Costs Under Your Control

The HVAC system can represent up to 25% of an operators utility costs. The thermostat is the key component to save on heating or cooling system costs. The requirements are: First it must look good on the wall, be very easy to use and meet all the needs of the user and the equipment it is controlling. Second it must be able to adapt to all the different control variations required (single or multi stage heat/cool systems, single or multiple fan speed + Heat Pump and emergency heat applications.

Finally the operator has to be able to "lock-out" local control in favor of remote control, while maintaining comfort and eliminate energy wasting adjustments.

The installer is able to configure the iStat/Pro to control Heat pump systems, (with auxiliary or emergency heating if necessary) gas/oil heating systems with add on cooling, plus control high and low balance points (using external sensors as well as the number of heating and cooling stages needing precise control. It can even adapt to manage the number of fan speeds it can control.

The operator can choose The iStat/Pro to be in programmable or manual mode with single or multiple set points. By networking multiple iStat/Pro's with our XWEB Internet Monitoring and Control System, the iStat/Pro can be remotely Monitored and Controlled keeping HVAC costs under control.

iStat/Pro FEATURES

- Selectable as Manual or Programmable
- Up to 2 stage Heat/Cool or heat pump
- Single or 3 speed fan control
- Keyboard and/or Temperature Locks
- Occupancy sensor input
- Economizer function
- 24V powered with battery backup
- Large backlit LCD Touch Screen Display
- Remote temperature sensors available
- Integrated Remote Communications
- Replaces almost all 24V thermostats
- XWEB Compatible



XWEB Web Server

APPROVALS:

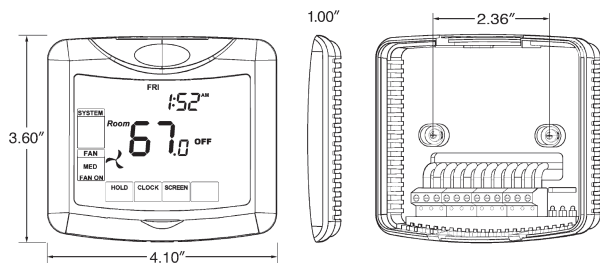
DATE:

Installer options

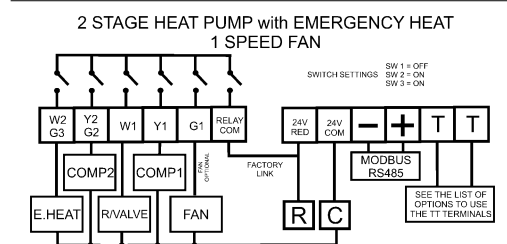
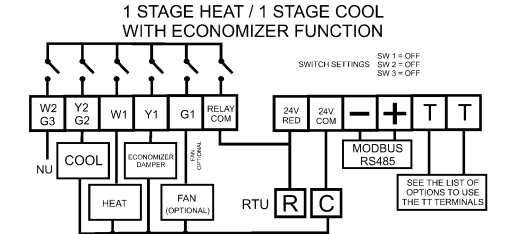
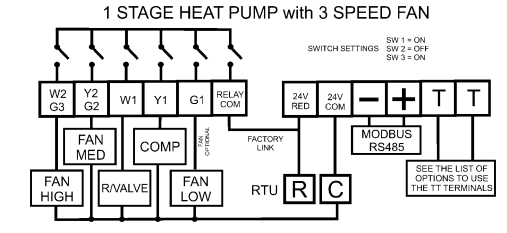
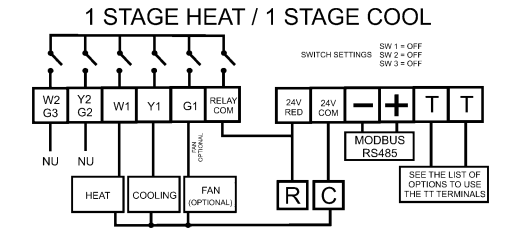
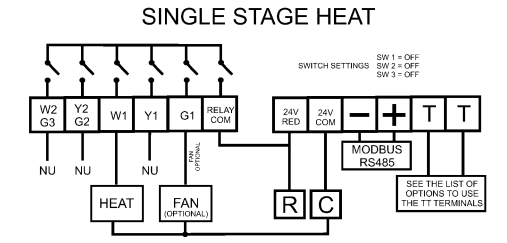
Address	00 to 99.
Keyboard Lock	5 levels.
Max Heat set point	32 to 99F
Min Cool set point	33 to 100F
LCD Display Units	Deg C / Deg F
Sensor calibration	+/- 5 deg.
Time display	12 or 24 Hour.
Temperature display	Room & set temp / set temp only.
After Hours O/R time	0 to 12 hours
Stop mode Cool temp	Off 32 - 95F
Stop mode Heat temp	Off 32 - 95F
1 Set point Dead band	0.5 to 5
Advanced fan options	Cycle with heat and on with cool. Commercial "Smart fan". Smart fan with Cool run on.
Fan purge period	0-5 minutes
Mode	Auto season mode. Cooling only mode. Heating only mode.
"W2" Output Logic	Auxiliary Heat Add On Heat Emergency Heat
TT Terminal Function	Outside air temp display. Remote room temp sensor. Average room temp sensor. Remote override to OFF. Occupancy mode On/Off
Anti freeze	Off 40F.
Occupied Heating SP	Off 32-99F.
Occupied Cooling SP	Off 100F.
Span stage 1	1 -5 deg F.
Span stage 2	1 -5 deg F.
Upstage Delay time	5 ~ 60 minutes.
Adaptive recovery	On or Off.
Outside sensor Calibration.	+/- 5 deg
Outside Temp Cool Inhib.	32 - 95F
Outside Temp Heat Inhib.	32 - 95F
High Balance point	32 - 95F
Low Balance point	15 - 95F
Modbus Address	0-99
Filter monitor	Off to 900 hours.
Commissioning Mode	On/Off
Economizer Function	On/Off
Temp alarms	Hi/Low

Switch Functions

	Off	On
Sw 1 - Fan Speed.	1 Speed (2 Heat / 2 Cool)	3 Speed (1 Heat / 1 Cool)
Sw 2 - A/C Equip.	Heat & Cool	Heat Pump O/B Terminals
Sw 3 - Stages (if Sw1=OFF)	1 Stage	2 Stages
Sw 4 - Reversing Valve When Sw2 = ON (HP Mode)	Energized Cool (O)	Energized Heat (B)
Sw 4 - Fan Mode When Sw2 = OFF (HC Mode)	Fan by Heater (HG)	Fan by T'stat (HE)
Sw 5 - Anti cycle delay	Off	4 Minutes
Sw 6 - Operation	Manual Thermostat	Programmable Thermostat
Sw 7 - Min Run time	2 minutes	6 Minutes
Sw 8 - Prog Type When Sw6 = ON (programmable)	Commercial Programmable	Residential Programmable
Sw 8 - # Events When Sw6 = OFF (Manual)	Single Set Point	2 Set points



Wiring Examples



Terminal Designations

24-	24V - 0v input.	G2/Y2	Fan Med / 2nd Compressor / Coc
24+	24V - Active input.	G3/W2	Fan High / Aux Heat. / Heat 2
R/com	Relay common.	T	Remote Terminal
G1	Fan low.	T	Remote Terminal
Y1	Compressor 1 / Cool 1	+	Modbus Data
W1	Reversing Valve / Heat 1	-	Modbus Data

WARRANTY
ONE YEAR

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE