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SENSORS for Smart City

DL01Q Wireless Air Quality sensor

- Voltage supply: 24VAC/VDC
 - Connect with data logger through wireless communication
 - Can connect with 0-10V output receiver
- Measurement:
- Dust particulate measuring range: 0-6000 $\mu\text{g}/\text{m}^3$
 - Detectable particle size: 0.3-10 μm

DL01C Wireless CO₂ sensor

- Voltage supply: 24VAC/VDC
 - Connect with data logger through wireless communication
 - Can connect with 0-10V output receiver
- Measurement:
- CO₂ measuring range: 400-5000ppm



Wireless Communication:

- 868MHz bi-directional communication
- Effective RF range: 50 meters in open area
- Pairing with Wifi Data Logger or output receiver

DL01M RF-to-Modbus receiver

- Voltage supply: 24VAC
- Collect data from Temperature, Humidity, CO₂, Air Quality and Air Velocity sensors
- Connect with sensor through Modbus communication
- Data is stored on Modbus server so that data can be accessed anywhere
- All settings can be viewed and controlled by Modbus server

DL01T Wireless Temperature sensor

- Voltage supply: 24VAC/VDC
 - Connect with data logger through wireless communication
 - Can connect with 0-10V output receiver
- Measurement:
- Temperature measuring range: 0-40°C

DL01H Wireless Temperature and Humidity sensor





- Voltage supply: 24VAC/VDC
 - Connect with data logger through wireless communication
 - Can connect with 0-10V output receiver
- Measurement:
- Temperature measuring range: 0-40°C
 - Humidity measuring range: 20-100% RH non-condensing


DL16W Wifi Data Logger

- Voltage supply: 24VAC/VDC
- Collect data from Temperature, Humidity, CO₂, Air Quality and Air Velocity sensors
- Connect with sensor through wireless communication
- Can connect with relay output receiver for control
- Maximum 16 devices can be connected
- WiFi connectivity (IEEE 802.11 b/g/n 2.4GHz)
- Data & settings can be viewed and controlled by mobile apps
- Alarm notification on mobile device



Direct Digital Controller + Room Unit

DDC	ROOM UNITS		
	3.5" 16 bit RGB color TFT		
			
LN630 ~WiFi BACnet DDC	✓		
LN660 ~WiFi BACnet VAV	✓		
LN02 ~DDC with LON		✓	✓
LN12 ~VAV with LON		✓	✓
LN32 ~DDC with BACnet		✓	✓
LN62 ~VAV with BACnet		✓	✓
LN82 ~DDC with Modbus		✓	✓
LN92 ~VAV with Modbus		✓	✓

 with Airflow Sensing & Control

TS350/360/370



Touch Screen Thermostat with Modbus RS485

- 2 stages thermostat / heat pump
- RS485 channel Modbus RTU
- Device address (1 - 127)

LN03 Master LN03 Slave



BACnet I/O Module

- 4 Binary Output (BO)
- 4 Binary Input (BI)
- 4 Universal Analog Output (UAO)
- 4 Universal Analog Input (UAI)

CTB01



BACnet Thermostat with AO 0-10V

- BACnet Application Specific Controller (B-ASC)
- Analog Output (0-10 VDC)
- Analog Input (0-10 VDC / 4-20mA / NTC10k / PT1000 / Ni1000 / digital input)

WIFI THERMOSTAT

- Remote control and monitoring via WiFi connectivity (IEEE 802.11 b/g)
- LCD display: temperature / heat / cool / defrost indicator
- Short cycle protection for compressor
- Non-volatile memory save all internal settings
- LCD backlight



°C / °F

TM812 & TM802C / TM800T WiFi Thermostat with Remote Sensor

- Power Supply: 100-250VAC
- Relay Contact: 250VAC Max
- Selection of Heat / Off / Cool
- 7 individual programs: Mon, Tue, Wed, Thu, Fri, Sat, Sun
- Each program 6 time zones

TM662 I-Color Touch Screen Thermostat

- Display: 3.5" 16 bit RGB color TFT
- System: Heat / Off / Cool
- Separate Heat mode & Cool mode programming
- 7 individual programs: Mon, Tue, Wed, Thu, Fri, Sat, Sun
- Each program 6 time zones



100-250VAC

°C / °F



TM900 WiFi Touch Screen Thermostat

- Standard Thermostat: 2-stage heat & 2-stage cool
- Heat Pump Thermostat: 3-stage heat & 2-stage cool
- Gas / Electric Heat selection
- Suitable for dual fuel or electric strip system

24VAC

Defrost

°C / °F

System	Fan
Heat <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Cool <input checked="" type="checkbox"/>	Auto <input checked="" type="checkbox"/>
Auto <input checked="" type="checkbox"/>	Off <input type="checkbox"/>
On <input type="checkbox"/>	On <input type="checkbox"/>
Off <input checked="" type="checkbox"/>	High <input type="checkbox"/>
Heat Pump <input checked="" type="checkbox"/>	Med <input type="checkbox"/>
Em. Heat <input type="checkbox"/>	Low <input type="checkbox"/>



TM902 WiFi Touch Screen Thermostat

- Standard Thermostat: 1-stage heat or 1-stage cool

230VAC

Defrost

°C / °F

System	Fan
Heat <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Cool <input checked="" type="checkbox"/>	Auto <input checked="" type="checkbox"/>
Auto <input checked="" type="checkbox"/>	Off <input type="checkbox"/>
On <input type="checkbox"/>	On <input checked="" type="checkbox"/>
Off <input checked="" type="checkbox"/>	High <input type="checkbox"/>
Heat Pump <input checked="" type="checkbox"/>	Med <input type="checkbox"/>
Em. Heat <input type="checkbox"/>	Low <input type="checkbox"/>



24VAC

TM960 / TM962 WiFi Touch Screen 7 days Programmable Thermostat

- 7 individual programs: Mon, Tue, Wed, Thu, Fri, Sat, Sun
- Each program with 6 time zones
- Gas / Electric Heat selection
- Standard Thermostat: Max. 2-stage heat / 2-stage cool
- Heat Pump Thermostat: Max. 3-stage heat / 2-stage cool
- TM962: 1-stage heat & 1-stage cool, No Fan



Programmable

Defrost

°C / °F

System	Fan
Heat <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Cool <input checked="" type="checkbox"/>	Auto <input checked="" type="checkbox"/>
Auto <input checked="" type="checkbox"/>	Off <input type="checkbox"/>
On <input type="checkbox"/>	On <input checked="" type="checkbox"/>
Off <input checked="" type="checkbox"/>	High <input type="checkbox"/>
Heat Pump <input checked="" type="checkbox"/>	Med <input type="checkbox"/>
Em. Heat <input checked="" type="checkbox"/>	Low <input type="checkbox"/>



TN962 WiFi 7 days Programmable Thermostat

- 7 individual programs: Mon, Tue, Wed, Thu, Fri, Sat, Sun
- Each program with 6 time zones
- 1-stage heat or 1-stage cool

230VAC

Programmable

Defrost

°C / °F

System	Fan
Heat <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Cool <input checked="" type="checkbox"/>	Auto <input checked="" type="checkbox"/>
Auto <input checked="" type="checkbox"/>	Off <input type="checkbox"/>
On <input type="checkbox"/>	On <input type="checkbox"/>
Off <input checked="" type="checkbox"/>	High <input type="checkbox"/>
Heat Pump <input checked="" type="checkbox"/>	Med <input type="checkbox"/>
Em. Heat <input type="checkbox"/>	Low <input type="checkbox"/>



REAR VIEW

TF982 WiFi 3-speed Touch Screen Thermostat

- Selection of binary output or analog output for cooling control
- Adjustable setpoint limit & adjustable control span for binary output control
- Adjustable P-band for analog output control
- Binary input for occupancy sensor
- Filter usage counter & energy usage counter



230VAC

Defrost

°C / °F

System	Fan
Heat <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Cool <input checked="" type="checkbox"/>	Auto <input checked="" type="checkbox"/>
Auto <input checked="" type="checkbox"/>	Off <input type="checkbox"/>
On <input type="checkbox"/>	On <input type="checkbox"/>
Off <input checked="" type="checkbox"/>	High <input type="checkbox"/>
Heat Pump <input checked="" type="checkbox"/>	Med <input checked="" type="checkbox"/>
Em. Heat <input type="checkbox"/>	Low <input type="checkbox"/>

TOUCH SCREEN THERMOSTAT



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24VAC

Programmable

TM010

Touch Screen Programmable Thermostat / Heat Pump

- Voltage: 24 VAC, 50/60 Hz
- Rating: 1A
- Prog: 7-Days Programmable
- Each program 4 Time Zones
- System: Heat / Cool / Auto / Off
- Fan: ON / AUTO



230VAC

Programmable

TM062

Touch Screen Programmable Thermostat

- Voltage: 230 VAC, 50/60 Hz
- Rating: 8A
- Prog: 7-Days Programmable
- Each program 6 Time Zones
- System: Heat / Cool / Off
- No Fan

24VAC

Programmable

TS010

Touch Screen Programmable Thermostat / Heat Pump

- Voltage: 24 VAC, 50/60 Hz
- Rating: 1A
- Prog: 7-Days Programmable
- Each program 4 Time Zones
- EEPROM Memory
- System: Heat / Cool / Auto / Off
- Fan: ON / AUTO



230VAC

Programmable

TS012

Touch Screen Programmable Thermostat

- Voltage: 230 VAC, 50/60 Hz
- Rating: 8A
- Prog: 7-Days Programmable
- Each program 4 Time Zones
- EEPROM Memory
- System: Heat / Cool / Off
- No Fan

TS082

Touch Screen Programmable Thermostat

- Voltage: 24...230 VAC, 50/60 Hz
- Rating: 8A
- Prog: 7-Days Programmable
- 18 individual programs: 8 default programs and 10 user-editable programs
- Comfort Mode or Economy Mode
- Non-volatile Memory
- System: Heat / Cool / Off
- No Fan



230VAC

Programmable

LCD 3-SPEED FAN / MODULATING 0-10V / SOLAR / DIN-RAIL / Z-WAVE / CHRONOTHERMOSTAT

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LCD 3-Speed Fan Thermostat

TN112



- 230 VAC, 2A
- System: Heat / Off / Cool
- Fan Speed: High / Med / Low / Auto

TN122



- 230 VAC, 2A
- System: Heat / Off / Cool & Humidity
- Humidifier / Dehumidifier Control
- Fan Speed: High / Med / Low / Auto

TF982

REAR VIEW



- 120-230 VAC, 2A
- System: Cool / Off
- Easy-to-use WiFi connection
- Fan Speed: High / Med / Low / Auto
- 0-10V output for valve control

Modulating 0-10V Output Thermostat

ET102



- 230 VAC, 50/60Hz
- System: Heat / Cool
- Fan: On / Off
- Fan Speed: High / Med / Low

ET120



- 24 VAC, 50/60Hz
- 0-10V proportional output
- System: Cool
- Suitable for controlling Modulating type actuators
- Input for occupancy sensor

ET200/210



- 24 VAC, 50/60Hz
- ET200
- System: Heat / Cool
- With 2 Heat or 2 Cool Control
- ET210
- System: Heat / Off / Cool
- Fan: On / Auto

ET220



- 24 VAC, 50/60Hz
- System: Heat / Cool
- Fan: On / Off / Auto
- Fan Speed: High / Med / Low

ET300



- 24 VAC, 50/60Hz
- System: Heat / Off / Cool
- Fan Speed: High / Med / Low
- Selectable 60 - 180sec 3 pt float actuator/valve travel time

Solar Thermostat - Water Heating System

ST112



- 90...253 VAC, 56/60Hz
- System: Heat Only
- Anti-freeze function, 24 hrs time display
- 3 temperature sensors input (1 collector & 2 tanks)
- EEPROM memory

DIN-rail LCD Electronic Thermostat

VD022



- 230 VAC, 56/60Hz, 16A
- System: Heat (normal-open valve)
- Remote sensor / floor sensor
- Defrost heating function

VD032



- 230 VAC, 56/60Hz, 16A
- System: Heat / Cool
- 5-1-1 programmable
- Remote sensor / floor sensor
- Defrost heating function
- Rechargeable battery backup

Programmable

Z-WAVE LCD Electronic Thermostat

TN512



- 230 VAC, 50/60Hz
- System: Heat / Cool / Off
- Fan Speed: High / Med / Low / Auto
- Rating: 1A
- Support heat pump and electrical heat-cool system

WT510



- 24 VAC, 50/60Hz
- System: Heat / Cool / Off / Auto
- Fan: On / Auto
- Rating: 1A
- Support heat pump and electrical heat-cool system

Chronothermostat

TG01-D



- Daily Mechanical Clock Thermostat
- 230 VAC, 50/60Hz
- System: Heat Only
- 3 operation modes: Program Mode / Comfort Override Mode / Off Mode
- 24 Hrs, every 15 mins programmable
- Temperature measures every 10 secs

TG01-W



- Weekly Mechanical Clock Thermostat
- 230 VAC, 50/60Hz
- System: Heat Only
- 3 operation modes: Program Mode / Comfort Override Mode / Off Mode
- 24 Hrs, every 15 mins programmable
- Temperature measures every 10 secs

TG02



- LCD Daily Programmable Thermostat
- 230 VAC, 50/60Hz
- System: Heat / Cool
- 24 Hrs programmable
- 3 operation modes: Program Mode / Comfort Override Mode / Off Mode
- Summer / Winter operation

FLOOR HEATING THERMOSTAT

230VAC

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Product	Model	Prog(days)	System	Feature	Fan	Temperature Control range	Power Supply	Floor Sensor
ET032 	ET032		Heater			10-30°C	150-250VAC	3 Meters
ET532 	ET532		Heater	Room sensor & Floor sensor		10-40°C	230VAC	3 Meters
ET13 	ET130 ET132		Heater/ Cooler			5-35°C	3.0 VDC (batteries)	3 Meters
ET33/63 	ET33~ ET332 ET630 ET63~ ET632		Heater			5-35°C	24/120/ 230VAC	3 Meters
LT23/33 Programmable 	LT230 LT232	5+1+1	Heater Cooler	Room sensor & Floor sensor		5-40°C	3.0 VDC (batteries)	3 Meters
	LT332					5-35°C		
FH812 	FH812		Heater	Easy knob & Power button		0-40°C	230VAC	3 Meters
FH822 	FH822		Heater	EEPROM		5-40°C	230VAC	3 Meters
FH832 Programmable 	FH832	5+2	Heater	EEPROM		5-40°C	230VAC	3 Meters
FH852  	FH852		Heater	Touch Screen EEPROM		5-40°C	230VAC	3 Meters
FH862 Programmable  	FH862	5+2	Heater	Touch Screen with backup rechargeable battery		5-40°C	230VAC	3 Meters

TEMPERATURE, HUMIDITY CONTROL PLUG / SWITCH PIR / SURGE PROTECTOR / GARDENING / PTAC

AVANTEC









Plugs available: UL / UK / GS / FR / CC / IT / SAA / SWISS / IS

T series		H series	
<ul style="list-style-type: none"> Controlling temperature: 5-35°C, 0.5°C resolution Operating temperature: 0-45°C 120VAC (10(3)A) / 230VAC (16(3)A) available 		<ul style="list-style-type: none"> Controlling humidity: 30-90% RH, 1% resolution Operating humidity: 25-95% RH 	
T03	 <ul style="list-style-type: none"> Programmable Therma Plug 230VAC, 50/60Hz Controlling temperature: 5-35°C, 0.5°C resolution Measurable temperature: 0-40°C 5-1-1 Program, 6 events Memory stores program and settings 	H13	 <ul style="list-style-type: none"> LCD Hygro Plug 195-253VAC, 50/60Hz Display humidity and On/Off status of humidifier and dehumidifier
T30	 <ul style="list-style-type: none"> Therma Plug 230VAC, 50/60Hz Controlling temperature: -5-25°C, 0.5°C resolution Operating temperature: -20-50°C 	H33/63	 <ul style="list-style-type: none"> LCD Hygro Plug 120/230VAC, 50/60Hz Controlling humidity: 30-90% RH, 1% RH resolution Measurable humidity: 25-95% RH
T33/63	 <ul style="list-style-type: none"> LCD Heat-Therma Plug 120/230VAC, 50/60Hz Controlling temperature: 5-35°C, 0.5°C resolution Measurable temperature: 0-40°C 	H38/68	 <ul style="list-style-type: none"> LCD De-Hygro Plug 120/230VAC, 50/60Hz Controlling humidity: 30-90% RH, 1% RH resolution Measurable humidity: 25-95% RH
T38/68	 <ul style="list-style-type: none"> LCD Cool-Therma Plug 120/230VAC, 50/60Hz Controlling temperature: 5-35°C, 0.5°C resolution Measurable temperature: 0-40°C 	Surge Protector	
T62	 <ul style="list-style-type: none"> LCD Heat-Therma Plug 120VAC, 50/60Hz Controlling temperature: 40-95°F Measurable temperature: 30-99°F 	R01/11	 <ul style="list-style-type: none"> Suitable for all 10-16 Amps capacity appliances R01 1-mode protection: Live-Neutral R11 3-mode protection: Live-Neutral, Neutral-Earth, Live-Earth
T66	 <ul style="list-style-type: none"> LCD Thermostat Plug with clip sensor 230VAC, 50/60Hz °F / °C selection Controlling temperature: 0-49°C / 32-120°F, 0.5°C / 1°F resolution Measurable temperature: -5-50°C / 23-122°F 	R23/71	 <ul style="list-style-type: none"> Protect all home appliances from over & under voltage 3-mode protection: Live-Neutral, Neutral-Earth, Live-Earth
T69	 <ul style="list-style-type: none"> LCD Cool-Therma Plug 120VAC, 50/60Hz Controlling temperature: 40-95°F Measurable temperature: 30-99°F 	Switch & PIR Motion Detection	
PTAC		EF01	 <ul style="list-style-type: none"> Fan Switch 24...250VAC, 50/60Hz Fan Speed: High / Med / Low Operating temperature: 0-40°C
PTAC	 <ul style="list-style-type: none"> PTAC Thermostat 230VAC, 50/60Hz System: Heat / Cool / Auto Compressor: 8A, Heater: 21A, Each Fan: 2A Fan: On / Auto EEPROM 	LS113	 <ul style="list-style-type: none"> PIR Motion Detection Light Switch 230VAC, 50/60Hz Loading CFL, LED lighting 3, 5, 10 mins delay time selection
		PT010/012	 <ul style="list-style-type: none"> PIR Motion Detection Thermostat 24/230VAC, 16A resistive load Suitable for mounting on ceiling PIR sensor for detecting room occupancy Controlling temperature: 5-30°C








RF WIRELESS THERMOSTAT (📶)

AVANTEC

Product	Model	Feature	System	Fan	Heat Pump	Frequency	Power Supply	Support Address
TS820/830  Programmable	TS820	Touch Screen, 7 days programmable with 4 time zones	Heat Cool Off	On Auto		433MHz	Transmitter: 3.0 VDC (batteries)	
	TS830		Heat Em. Heat Cool Off	On Auto	★		Receiver: 24VAC	
WT530 	WT530	5-1-1 Programmable	Heat Cool Off	On Auto		915MHz	Transmitter: 3.0 VDC (batteries) Receiver: 24VAC	Up to 1024, with 10 poles of dip switch
WT552 	WT552		Heat Cool			868/915MHz	Transmitter: 3.0 VDC (batteries) Receiver Plug: 120...240VAC • 16A: GS/FR/SA/IT/CCC Plug • 13A: UK Plug • 15A: UL Plug	Up to 256, with 8 poles of dip switch
WT562 	WT562		Heat Cool			868MHz	Transmitter: 3.0 VDC (batteries) Receiver: 230VAC	Up to 256, with 8 poles of dip switch
WT652  Programmable	WT652	5-1-1 Programmable with 4 events per day	Heat Cool			868/915MHz	Transmitter: 3.0 VDC (batteries) Receiver Plug: 120...240VAC • 16A: GS/FR/SA/IT/CCC Plug • 13A: UK Plug • 15A: UL Plug	Up to 256, with 8 poles of dip switch
WT662  Programmable	WT662	5-1-1 Programmable with 4 events per day	Heat Cool			868MHz	Transmitter: 3.0 VDC (batteries) Receiver: 230VAC	Up to 256, with 8 poles of dip switch
WT852  Programmable	WT852	7-days Programmable	Heat Cool			868/915MHz	Transmitter: 3.0 VDC (batteries) Receiver Plug: 220...240VAC • 16A: GS/FR/SA/IT/CCC Plug • 13A: UK Plug	Up to 256, with 8 poles of dip switch

RF WIRELESS THERMOSTAT

AVANTEC




Product	Model	Feature	System	Fan	Heat Pump	Frequency	Power Supply	Support Address
BT062 	BT062		Heat			868MHz	Transmitter: 3.0 VDC (batteries) Receiver: 24...240VAC	Up to 128
BT162 Programmable 	BT162	5-1-1 Programmable with 4 events per day	Heat			868MHz	Transmitter: 3.0 VDC (batteries) Receiver: 24...240VAC	Up to 128
RT01/02/05 Programmable 	RT01 24VAC RT02 230VAC RT05 230VAC	5-1-1 Programmable with 4 time zones 1 stage heat & 1 stage cool	Heat Cool Off Auto 1 stage heat & 1 stage cool	On Auto		433MHz	Transmitter: 3.0 VDC (batteries) Receiver: 230VAC	Up to 512
RT18/RT28 	RT18		Heat or Cool by jumper			433MHz	Transmitter: 3.0 VDC (batteries)	Up to 512, with 9 poles of dip switch
	RT28					868/915MHz	Receiver: 230VAC	Up to 256, with 8 poles of dip switch
RT38/48 Programmable 	RT38	5-1-1 Programmable with 6 time zones	Heat or Cool			433MHz	Transmitter: 3.0 VDC (batteries)	Up to 512, with 9 poles of dip switch
	RT48					868MHz	Receiver: 230VAC	Up to 256, with 8 poles of dip switch
TM032 Programmable 	TM032	Touch Screen, 7 days Programmable with 6 time zones	Heat Cool Off			868MHz	Transmitter: 3.0 VDC (batteries) Receiver: 230VAC	Up to 512
TS032 Programmable 	TS032	Touch Screen, 7 days Programmable with 4 time zones	Heat Cool Off			433MHz	Transmitter: 3.0 VDC (batteries) Receiver: 230VAC	Up to 512

RF WIRELESS THERMOSTAT (「」)

AVANTEC

Product	Model	Feature	System	Fan	Heat Pump	Frequency	Power Supply	Support Address
WT862 	WT862	7days Programm-able	Heat Cool			868MHz	Transmitter: 3.0 VDC (batteries) Receiver: 230VAC	Up to 256, with 8 poles of dip switch
R F Z O N E								
WT830 & ZN020 WT832 & ZN022 	(4 ZONES) WT830 & ZN020	Zone Controller(1)+ Room Units(4)	Heat Pump/ Standard HVAC	High Mid Low	*	868/915MHz	Zone Controller 24VAC Room Units: 3.0 VDC (batteries)	
	(4 ZONES) WT832 & ZN022	Zone Controller(1)+ Room Units(4)	Heat Cool	High Mid Low	*	868MHz	Zone Controller 230VAC Room Units: 3.0 VDC (batteries)	

ENERGY FUNCTION METER

FM012 & RU01 	FM012 & RU01	<ul style="list-style-type: none"> Data transfer to computer via wireless communication Energy information software provided 	<ul style="list-style-type: none"> 3 phase energy measurement Energy information will be saved in computer with energy consumption alarm 				230VAC	Support current transformer (0-2500) to adjust current value
FM022 & RU01 	FM022 & RU01	<ul style="list-style-type: none"> Data transfer to computer via wireless communication Energy information software provided 	<ul style="list-style-type: none"> single phase energy measurement Energy information will be saved in computer with energy consumption alarm 				230VAC	Support current transformer (0-2500) to adjust current value
FM032 	FM032	<ul style="list-style-type: none"> Data transfer to smart phone/ computer via WiFi Energy information software provided 	<ul style="list-style-type: none"> 3 phase energy measurement Energy information will be saved in computer with energy consumption alarm 				230VAC	Support current transformer (0-2500) to adjust current value

CO₂ CONTROL / AIR QUALITY SENSOR

Thermostat with CO₂ Control

CDT01

- 24VAC, 50/60Hz
- System: CO₂ & Heat / Cool
- CO₂ measurement range: 0-5000 ppm
- CO₂ accuracy: ± 75 ppm
- Transmitter CO₂ output signal: 0-10VDC (0-2500ppm)
- 3 relay output: CO₂ ventilation output, heat/cool output, fan output

CDT02

- 230VAC, 50/60Hz
- System: Ventilation Control & Off
- CO₂ measurement range: 400-5000 ppm
- CO₂ resolution: 1 ppm
- 1 relay output: CO₂ ventilation output

CDT01/02



Air Quality Sensor (USB Rechargeable)

- Measure dust density PM_{2.5} in the environment:
- Green light will be ON when dust density below $100\mu\text{g}/\text{m}^3$ representing good air quality
- Blue light will be ON when dust density between $100\text{--}150\mu\text{g}/\text{m}^3$ representing medium air quality
- Red light will be ON when dust density over $150\mu\text{g}/\text{m}^3$ representing bad air quality

DLG01Q



PROGRAMMABLE THERMOSTAT

24VAC

Programmable

AVANTEC

Product	Model	Prog(days)	System	Fan	Heat Pump	Stage	Power Supply	Selection
LP160/260/360/660 	LP160	5+2	Heat Off Cool	On Auto	*	1Heat+1Cool	3.0 VDC (batteries)	•°C/°F •12hr/24hr
	LP260	5+1+1				1Heat+1Cool		
	LP360	7 days				1Heat+1Cool		
	LP660	7 days	 Emer. Heat/ Heat/Off/Cool			2Heat+2Cool		
LT160/260/360/660 	LT160	5+2	Heat Off Cool	On Auto	*	1Heat+1Cool	3.0 VDC (batteries)	•°C/°F •12hr/24hr
	LT260	5+1+1				1Heat+1Cool		
	LT360	7 days				1Heat+1Cool		
	LT660	7 days	 Emer. Heat/ Heat/Off/Cool			2Heat+2Cool		
LT380 	LT380	5+1+1	Heat Only or Cool Only (NC-NO)				3.0 VDC (batteries)	•°C/°F •12hr/24hr •Heat/Cool by jumper
LT390 	LT390	5+1+1	Heat				24 VAC	
LT860 	LT860	5+1+1 with Energy Saving Index	Heat Off Cool	On Auto	*	1Heat+1Cool	3.0 VDC (batteries)	•°C/°F •12hr/24hr
TN030 	TN030	5+1+1 with 4 time zones	Heat Off Cool	On Auto	universal thermostat		3.0 VDC (batteries)	•°C/°F •12hr/24hr •Gas/ Electric Heat
WT030 	WT030	5+1+1 with 4 time zones	Heat Off Cool	On Auto	universal thermostat		3.0 VDC (batteries)	•°C/°F •12hr/24hr •Gas/ Electric Heat
WR252 	WR252	5+1+1 with 4 time zones (Real time clock with day of week display)	Heat Off Cool Window Open Detection				3.0 VDC (batteries)	•°C/°F •12hr/24hr

PROGRAMMABLE THERMOSTAT 120/230VAC Programmable









AVANTEC

Product	Model	Prog(days)	System	Fan	Heat Pump	Stage	Power Supply	Selection
LT08 	LT08	7 days & 8 pre-determined/ 8 user define	Heat Off Cool				3.0 VDC (batteries)	<ul style="list-style-type: none"> • Comfort mode/ Economy mode • 12hr/24hr
LT28 	LT28	7 days & 8 pre-determined/ 8 user define	Heat Off Cool				3.0 VDC (batteries)	<ul style="list-style-type: none"> • Comfort mode/ Economy mode • 12hr/24hr
LT31 	LT31	5+1+1	Heat Only or Cool Only				3.0 VDC (batteries)	<ul style="list-style-type: none"> • 12hr/24hr by jumper • Heat/Cool by jumper
LT35/39 	LT35~LT352	5+1+1	Heat Off Cool	High Mid Low			120/230VAC	<ul style="list-style-type: none"> • 12hr/24hr • Delay/No Delay by jumper
	LT39~LT392	5+1+1	Heat				120/230VAC	
LT38 	LT38	5+1+1	Heat Only or Cool Only				3.0 VDC (batteries)	<ul style="list-style-type: none"> • 12hr/24hr • Heat/Cool by jumper
WT032 	WT032	7 days	Heat Cool				3.0 VDC (batteries)	<ul style="list-style-type: none"> • 12hr/24hr
WT152/162/182 	WT152	5+1+1 with 4 time zones	Heat Off Cool	On Auto			3.0 VDC (batteries)	<ul style="list-style-type: none"> • °C/°F • 12hr/24hr
	WT162		Heat Off					
	WT182		Cool Off					

LCD ELECTRONIC THERMOSTAT

24VAC





AVANTEC

Product	Model	Feature	System	Fan	Heat Pump	Stage	Power Supply	Selection
ET12/180 	ET12M ET120	<ul style="list-style-type: none"> •0-10V Proportional Output •Input for occupancy sensor 	Cool for Modulating Actuators				24VAC	Internal/ External sensor
	ET180		Heat or Cool				3.0 VDC (batteries)	<ul style="list-style-type: none"> •°C/°F •Heat/Cool by jumper
ET160/190/860 	ET160		Heat Off Cool	On Auto			24VAC	
	ET190		Heat Cool					
	ET860		Heat Off Cool	On Auto		2Heat or 2Cool		
ET170/640/650 	ET170		Heat Off Cool	High Med Low			24 VAC	
	ET640	2 pipes						
	ET650	4 pipes						
ET340/350 	ET340	2 pipes	Heat Off Cool	High Med Low			24 VAC	
	ET350	4 pipes						
IR02 	IR02	Infra-Red (IR) remote control for Air Curtain	Heat	High Med Low		Heat I Heat II	24 VAC	
TN010 	TN010	EEPROM	Heat Off Cool Auto	On Auto	universal thermostat		24 VAC/ 3.0 VDC (batteries)/ 24 VAC common wire with battery back up	•°C/°F
WT010 	WT010	EEPROM	Heat Off Cool Auto	On Auto	universal thermostat		24 VAC/ 3.0 VDC (batteries)/ 24 VAC common wire with battery back up	•°C/°F
WT210 	WT210	EEPROM	Heat Off or Cool Off	Auto On		2Heat or 2Cool	24 VAC/ 3.0 VDC (batteries)/ 24 VAC common wire with battery back up	•°C/°F

LCD ELECTRONIC THERMOSTAT

120/230VAC








AVANTEC

Product	Model	Feature	System	Fan	Heat Pump	Stage	Power Supply	Selection
BT022 	BT022	EEPROM	Heat Off				3.0 VDC (batteries)	°C/°F
ET112 	ET112	On/Off Slide Switch	Heat Cool				3.0 VDC (batteries)	°C/°F
ET162 	ET162		Heat Off Cool	High Mid Low			230VAC	
ET182 	ET182		Heat or Cool (NC-NO)				3.0 VDC (batteries)	•°C/°F •Heat/Cool by jumper
ET192 	ET192		Heat Cool				230VAC	
ET32/39 	ET32		Cool				230VAC	
	ET39~ ET392		Heat				120/230VAC	
ET34/35 	ET34~ ET342	2 pipes	Heat Off Cool	High Mid Low			120/230VAC	
	ET35~ ET352	4 pipes						

LCD ELECTRONIC THERMOSTAT











120/230VAC

AVANTEC

Product	Model	Feature	System	Fan	Heat Pump	Stage	Power Supply	Selection
ET362/382 	ET362		Heat Off	High Mid Low			230VAC	
	ET382		Cool Off					
ET64/65 	ET64~ ET642	2 pipes	Heat Off Cool	High Mid Low			120/230VAC	
	ET65~ ET652	4 pipes						
ET66 	ET662		Heat Off	High Mid Low			230VAC	
ET68 	ET682		Cool Off	High Mid Low			230VAC	
ET69 	ET69~ ET692		Heat				120/230VAC	
ET882 	ET882	Binary Output for Heat & Cool	Heat Cool Auto	High Mid Low	*		230VAC	°C/°F
WT012 	WT012	EEPROM	Heat Off or Cool Off (NC-NO)				230VAC	°C/°F





ELECTRONIC THERMOSTAT

AVANTEC

Product	Model	Feature	System	Fan	Heat Pump	Stage	Power Supply	Selection
D012/022/032/052/112 	D012		Heat Only				230VAC	
	D022		Cool: On/Off	High/Med/Low				
	D032		Heat Only/Cool Only					
	D052		Heat: On/Off	High/Med/Low				
	D112		Heat: On/Off					
EC302 	EC302	Heat & Cool valve actuators (for-4 pipe fan coil unit)	Heat Cool Off	High Mid Low Off			230VAC	Normal/ Energy Saving/ Standby/ Frost Protection mode
ET02 	ET02~ ET022		Vent Off On	High Mid Low			120/230VAC	
TG03 	TG032		Heat Off Cool	High Mid Low			230VAC	With remote switch to control fan
TG08 	TG08	NO & NC outputs	Heat Off Cool				230VAC	
ET042/05 	ET042	2 pipes	Heat Off Cool	High Mid Low			120/230VAC	
	ET05~ ET052	4 pipes						
ET050 	ET050	4 pipes	Heat Off Cool	Auto On			24VAC	
ET070 	ET070		Heat Off Cool	High Mid Low	*		24VAC	
ET080 	ET080		Cool Off	Auto On			24VAC	
ET09 	ET090 ET092		Heat				24/120/ 150-240VAC	

HUMIDISTAT

AVANTEC

Product	Model	Controlling Humidity	System	Fan	Heat Pump	Stage	Power Supply	Selection
EH32/62/39/69 	EH32/EH62	30-90% RH	Dehumidifier				24/110-120/ 220-240VAC	
	EH39/EH69	30-90% RH	Humidifier				24/230VAC	
EH35/65 	EH35/65	30-90% RH	Dehumidifier Off Humidifier	High Med Low			24/110-120/ 220-240VAC	
EH36/66/38/68 	EH36/66	30-90% RH	Humidifier Off	High Med Low			110-120VAC/ 220-240VAC	
	EH38/68	30-90% RH	Dehumidifier Off					
EH37 	EH37	30-90% RH	Dehumidifier Off Humidifier				110-120VAC/ 220-240VAC	
TH20 	TH20	30-90% RH	Humidifier Off Dehumidifier/ Heat Off Cool				24/120/ 230VAC	
TN120 	TN120	30-90% RH	Humidifier Off Dehumidifier/ Heat Off Cool	High Mid Low Auto			24VAC	Support 2 pipes system (Heat or Cool) Support 4 pipes system (Heat & Cool)
TN220 	TN220		Heat Off Cool Auto	On Auto	*	2 stages Heat & 2 stages Cool	24VAC	<ul style="list-style-type: none"> • Heat Only (normal open or normal close valves) • Heat with fan <ul style="list-style-type: none"> • Cool • Heat Pump • Electric/oil/gas heat with cool