Catalogue

Thermostats

European Products Catalogue

The power behind **your mission**

Johnson Controls

Comprehensive linecard

Heating & Cooling Room Thermostats

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Heating & Cooling Room Thermostats

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T1Rxx

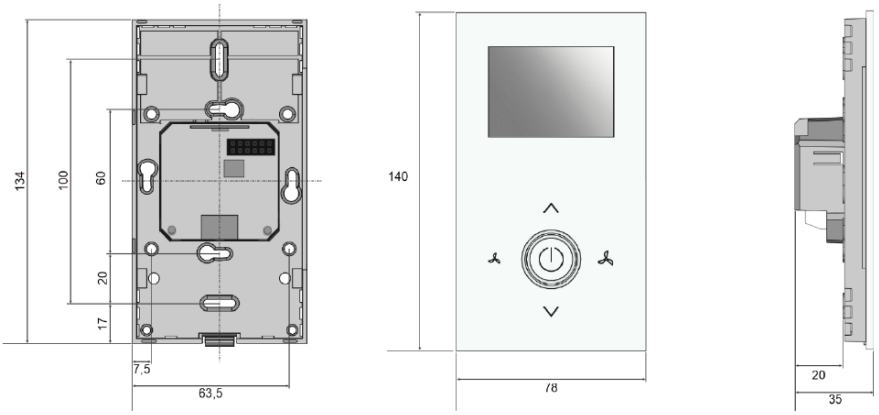
Heating & Cooling Room Thermostats

Room thermostat in high-quality design for individual temperature control, e.g. in hotel rooms or offices. A glass surface with intuitive touch control buttons and display combine design, feel and functionality in an outstanding way. The internal controller of the T1000 calculates control values for heating/cooling applications, which are provided via analog or digital outputs (depending on type).
The possible integration of various external sensors (e.g. window contacts, change-over, condensation sensors, etc.) allows temperature control tailored to the application. The device can be mounted in a standard flush-mounted box.

Features

- Elegant flat design combined with premium materials and large LCD screen (available colours: black and white)
- Flexibility and options through three different models
- Demand-controlled operation using individual user profiles
- Integration into BMS possible
- Integrated ECO-Function for an increased energy-efficiency
- Change-Over applications via external temperature sensor or relay input
- Optional integration of window contacts, dew-point sensors of key card switches
- Simple and quick configuration via touch buttons or BUS
- 7 days 4 periods programmable function: one week is divided into 7 days with four periods in each day, each temperature can be set separately to meet the user´s different room temperature need in different time periods

Dimensions



Johnson Controls

T1Rxx

Heating & Cooling Room Thermostats

Ordering information

T1Rxx Stand alone

Code	Network Technology	Heating/Cooling (rely)	Heating/Cooling (0...10V)	6-Way-Valve (0....10V)	Housing Color
T1R11-00021	Stand alone	0	2	1	White
T1R11-00201	Stand alone	2	0	1	White

T1Rxx Modbus

Code	Network Technology	Heating/Cooling (rely)	Heating/Cooling (0...10V)	6-Way-Valve (0....10V)	Housing Color
T1RM1-00021	Modbus	0	2	1	White
T1RM1-00201	Modbus	2	0	1	White
T1RM2-00021	Modbus	0	2	1	Black
T1RM2-00201	Modbus	2	0	1	Black

Accessories (order separately)

Codes	Description
T00-000-T	USB Interface JCI

Electric Fancoil Thermostats

Solution Navigator

T125-E

Stand-alone Fancoil

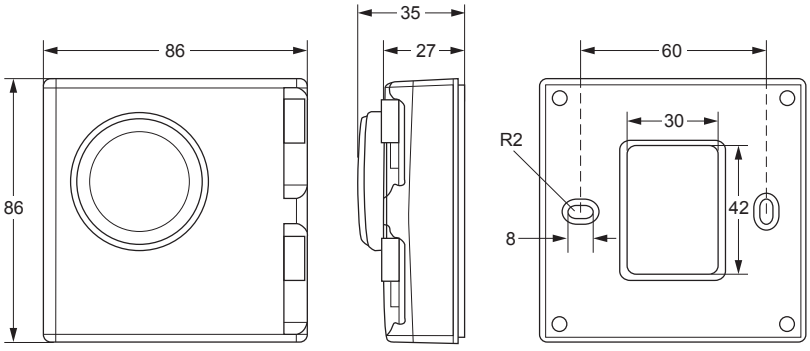
T125 electric fan coil thermostats are designed to control heating, cooling, or air conditioning unit in commercial, industrial and residential installation.

Typical application includes the control of fan coil units, packaged terminal air conditioners and combination heating and cooling equipment. As part of the system that consists of a two-way or three-way valve and a multi-speed line voltage fan.

Features

- 220 V power supply
- Heating and Cooling mode
- 2-4 pipes configuration
- 3-speed fan override
- 86 x 86 mm room enclosures
- Temperature dial ranges 10 to 30 °C
- Relay output max. 5A

Dimensions (in mm)



Ordering information

Codes	Built-in NTC	Setpoint Range	2 pipes (Heating or cooling)	4 pipes (Heating and cooling)	Outputs	
					PAT	On/Off
T125BAC-JS0-E	■	10 to 30 °C	■	---	■	■
T125FAC-JS0-E			---	■	---	■

Johnson Controls

Solution Navigator

T1Fxx

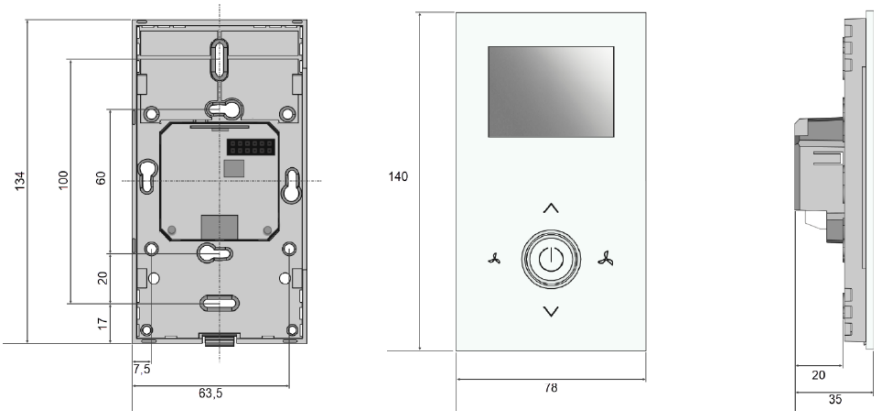
Electric Fan Coil Thermostats

Fancoil thermostat in high-quality design for individual single-room temperature- and fan control. A glass surface with intuitive touch control buttons and display combine design, feel and functionality in an outstanding way. The internal controller of the T1000 calculates control values for fans and heating/cooling applications, which are provided via analog or digital outputs (depending on type). The possible integration of various external sensors (e.g. window contacts, change-over, condensation sensors, etc.) allows temperature and fan control tailored to the application. The device can be mounted in a standard flush-mounted box.

Features

- Elegant flat design combined with premium materials and large LCD screen (available colours: black and white)
- Flexibility and options through three different models
- Demand-controlled operation using individual user profiles
- Integration into BMS possible
- Integrated ECO-Function for an increased energy-efficiency
- Change-Over applications via external temperature sensor or relay input
- Optional integration of window contacts, dew-point sensors of key card switches
- Simple and quick configuration via touch buttons or BUS
- 7 days 4 periods programmable function: one week is divided into 7 days with four periods in each day, each temperature can be set separately to meet the user´s different room temperature need in different time periods

Dimensions



T1Fxx

Electric Fan Coil Thermostats

Ordering information

T1Fxx Fan Coil Stand alone

Code	Network Technology	FAN (relay)	EC FAN	Heating/ Cooling (rely)	Heating/ Cooling (0...10V)	6-Way-Valve (0....10V)	Housing Color
T1F11-01200	Stand alone	0	1	2	0	0	White

T1Fxx Fan Coil Modbus

Code	Network Technology	FAN (relay)	EC FAN	Heating/ Cooling (rely)	Heating/ Cooling (0...10V)	6-Way-Valve (0....10V)	Housing Color
T1FM1-30200	Modbus	3	0	2	0	0	White
T1FM1-01021	Modbus	0	1	0	2	1	White
T1FM1-01200	Modbus	0	1	2	0	0	White
T1FM2-30200	Modbus	3	0	2	0	0	Black
T1FM2-01021	Modbus	0	1	0	2	1	Black
T1FM2-01200	Modbus	0	1	2	0	0	Black

Accessories (order separately)

Codes	Description
T00-000-T	USB Interface JCI

Solution Navigator

T7600

MODBUS® Fancoil Thermostats

The T7600 Series Modbus® LCD thermostats are designed to control heating and cooling through air conditioning unit in commercial and residential application.

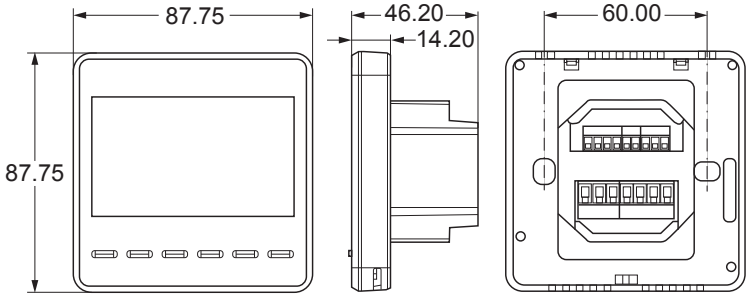
Typical applications include the control of fancoil units, floor heating, packaged terminal air conditioners and combination of heating and cooling equipment. As part of the system, T7600 series thermostat can control 2-way or 3-way valve and multiplespeed line voltage fan or ECM fan.

T7600 with its large LCD screen displays the working mode (cooling, heating, air venting, floor heating), fan speed, indoor temperature and set point.

Features

- Flush mount for a stylish appearance
- Large screen backlighted with timeout
- Stand Alone or Communicating in Modbus® RTU
- 2 or 4-pipes ON/OFF or Proportional
- Multispeed Fan or Proportional Fan speed (ECM)
- Customizable display can show actual temperature or setpoint only
- Protected against misuse in public spaces
- Configurable inputs
- Function, On/Off Timer, ESP filter control

Dimensions (in mm)



T7600

MODBUS® Fancoil Thermostats

Ordering information

Modbus®, Power Supply 100-240 VAC 50/60 Hz

Codes	Mode	Input	Valves Outputs	Fan Controls	Operating Condition
T7601-TF20-9JS0	2 or 4-pipe On/Off 2-pipe three wires On/Off 2-pipe with floor heating 2-pipe with TiO2/ESP filter 2-pipe proportional (AO) Water source heat pump	**Input 1:** Remote Sensor or Autochangeover [1] **Input 2 Configurable:** Occupancy, SP reduction Dew point alarm Shut off Filter alarm	2 x SPST Relay 2.2A @ 240 VAC	ECM AO = 0 to 10 V Configurable with Cut-off relay	0 to 40 °C 10 - 90 RH% non condensing
T7600-TF21-9JS0	Two pipe proportional (AO) Four pipe proportional (AO)		2 x AO 0 to 10 V (100 K Ohms)	3 x SPST Relay 2.2A @ 240 VAC	
T7600-TF20-9JS0	Two or four pipe On/Off Two pipe three wires On/Off Two pipe with floor heating Two pipe with TiO2/ESP filter Water source heat pump		2 x SPST Relay 2.2A @ 240 VAC	3 x SPST Relay 2.2A @ 240 VAC	

Note

1 Input 1 can be used for remote temperature monitoring or in two pipe system to determine the seasonal changeover. Requires a 10K NTC JC Type II.

Solution Navigator

T9000

Stand-alone, MODBUS®, BACnet® Fancoil Thermostats

With a frameless large touch screen, the T9000 Series Thermostats can display ambient temperature clearly and intuitively. The buttons are sensitive and very user-friendly.

The futuristic and hi-tech exterior design is loved by users from high-end office buildings, hotels, private hospitals, and high-end residential buildings.

The service life of the relay is designed to be turned on/off for 100,000 times. The eco-friendly shell materials meet the CE standard for flame retardants. High-quality materials and components ensure that the thermostats are safe, eco-friendly and reliable. The PCB was produced with a high-standard gold depositing procedure, to ensure better electrical performance, more sensitive touch, and more durable.

The thermostats have been certified by multiple industry standards, including CE, RCM, REACH, RoHS, BTL, WEEE and GB, to ensure stable performance.

Features

Modern Technology sense design

- Touch, Frameless, Larger Screen Red Dot Design Award, quality for good design.

Energy Saving and Efficient

- The T9000 Series Touch Screen Thermostats can be used to control ECM motors far better than industry standards, as they can reduce the motor's energy consumption by 30-50%.

Diverse Application Scenarios

- Each of the T9000 Series Touch Screen Thermostats supports multiple application scenarios. They can control multiple types of equipment, including the 2-pipe fan coil unit (FCU) / 4-pipe FCU; the water source heat pumps; the simple air handling units (AHUs), boilers and floor heating systems; the 3-speed motors and ECM motors; the 2-wiring / 3-wiring on / off valves, modulating control valves and floor heating valves; as well as other air purification units (e.g. TiO2 / ESP).

High quality

- High quality spec component selection, Relays 100k on/off times life cycle. No need to open thermostat, 3 step installation. Multi-certification CE, BTL, high quality component and material.

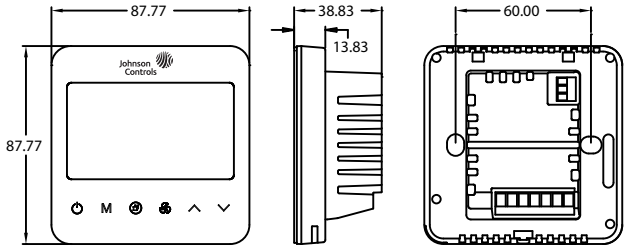
Smart, Optimize Control

- Adopting 32-bit high-performance MCU to ensure more accurate control and more powerful functions. BACnet® and Modbus® protocols that can be seamlessly connected to the building automation system, to achieve the best room climate control.

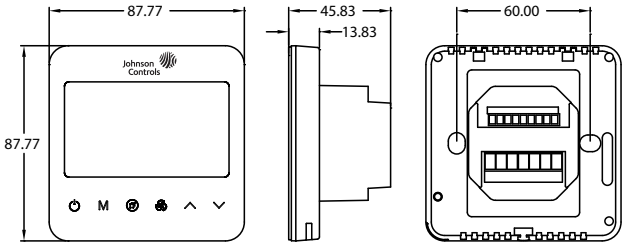
T9000

Stand-alone, MODBUS®, BACnet® Fancoil Thermostats

Dimensions (in mm)



T9200



T9600 - T9800

Ordering information

Codes	Application	Fan Control	Valve Control	Others Control
T9200-TF20-1JS0	2 pipe FCU, On/Off valve	3-speed Fan	1 On / Off Valve	
	4-pipe FCU, On / Off valve	3-speed Fan	2 On / Off Valves	
	2-pipe FCU, 3-wire On / Off valve	3-speed Fan	1 3-wire On / Off Valve	
	2-pipe FCU with floor heating, On / Off valve	3-speed Fan	1 On / Off Valve	1 Floor Heating
	2-pipe FCU with TiO2 / ESP, On / Off valve	3-speed Fan	1 On / Off Valve	1 TiO2 / ESP
	Water source heat pump	3-speed Fan		1 Compressor 1 Revert Valve
	Boiler/Floor Heating			1 Boiler / Floor Heating
T9200-TB21-1JS0	2-pipe FCU, ECM fan, On / Off valve	ECM fan	1 On / Off Valve	
	4-pipe FCU, ECM fan, On / Off valve	ECM fan	2 On / Off Valve	
	2-pipe FCU, ECM fan, 3-wire On / Off valve	ECM fan	1 3-wire On / Off Valve	
	2-pipe FCU, ECM fan with TiO2 / ESP, On / Off valve	ECM fan	1 On / Off Valve	1 TiO2 / ESP
	2-pipe FCU, ECM fan with floor heating, On / Off valve	ECM fan	1 On / Off Valve	1 Floor Heating
	Water source heat pump	ECM fan		1 Compressor 1 Revert Valve
	2-pipe FCU, Prop valve	3-speed Fan	1 Proportion Valve	

T9000

Stand-alone, MODBUS®, BACnet® Fancoil Thermostats

Ordering information

Codes	Application	Fan Control	Valve Control	Others Control
T9601-TF20-1JS0	2-pipe FCU, On / Off valve	ECM fan	1 On / Off Valves	
	4-pipe FCU, On / Off valve	ECM fan	2 On / Off Valves	
	2-pipe FCU, 3-wire On / Off valve	ECM fan	1 3-wire On / Off Valve	
	2-pipe FCU with floor heating, On / Off valve	ECM fan	1 On / Off Valve	1 Floor Heating
	2-pipe FCU with TiO2 / ESP, On / Off valve	ECM fan	1 On / Off Valve	1 TiO2 / ESP
	Water source heat pump	ECM fan		1 Compressor 1 Revert Valve
	2-pipe FCU, Prop valve	ECM fan	1 Proportion Valve	
	2-pipe FCU, Prop valve with Floor Heating	ECM fan	1 Proportion Valve	1 Floor Heating
	2-pipe FCU, Prop valve with Radiator	ECM fan	1 Proportion Valve	1 Radiator
	AHU	Single speed fan	1 Proportion Valve	1 Damper
T9600-TF21-1JS0	2-pipe FCU, Prop valve	3-speed Fan	1 Proportion Valve	
	4-pipe FCU, Prop valve	3-speed Fan	2 Proportion Valves	
T9600-TF20-1JS0	2-pipe FCU, On / Off valve	3-speed Fan	1 On / Off Valve	
	4-pipe FCU, On / Off valve	3-speed Fan	2 On / Off Valves	
	2-pipe FCU, 3-wire On / Off valve	3-speed Fan	1 3-wire On / Off Valve	
	2-pipe FCU with floor heating, On / Off valve	3-speed Fan	1 On / Off Valve	1 Floor Heating
	2-pipe FCU with TiO2 / ESP, On / Off valve	3-speed Fan	1 On / Off Valve	1 TiO2 / ESP
	Water source heat pump	3-speed Fan		1 Compressor 1 Revert Valve
T9603-T000-1JF0	Floor heating			1 Floor Heating

T9000

Stand-alone, MODBUS®, BACnet® Fancoil Thermostats

Ordering information

Codes	Application	Fan Control	Valve Control	Others Control	Input	Power Supply
T9800-TF21-1JS0	2-pipe FCU, Prop valve	3-speed Fan	1 Proportion Valves		1 BI, Occupancy 1 Remote sensor	24 VAC
	4-pipe FCU, Prop valve	3-speed Fan	2 Proportion Valves			
	2-pipe FCU, On / Off valve	ECM fan	1 On / Off Valve			
	4-pipe FCU, On / Off valve	ECM fan	2 On / Off Valves			
	2-pipe FCU, 3-wire On / Off valve	ECM fan	1 3-wire On / Off Valve			
	2-pipe FCU with floor heating, On / Off valve	ECM fan	1 On / Off Valve	1 Floor Heating		
	2-pipe FCU with TiO2 / ESP, On / Off valve	ECM fan	1 On / Off Valve	1 TiO2 / ESP		
	Water source heat pump	ECM fan		1 Compressor 1 Revert Valve		
	2-pipe FCU, Prop valve	3-speed Fan	1 Proportion Valve			
	2-pipe FCU, Prop valve with Floor Heating	ECM fan	1 Proportion Valve	1 Floor Heating		
	2-pipe FCU, Prop valve with Radiator	ECM fan	1 Proportion Valve	1 Radiator		
	AHU	Single speed Fan	1 Proportion Valve	1 Damper		
T9800-TF20-1JS0	2-pipe FCU, On / Off valve	3-speed Fan	1 On / Off Valve		1 BI, Occupancy 1 Remote sensor	100~240 VAC
	4-pipe FCU, On / Off valve	3-speed Fan	2 On / Off Valves			
	2-pipe FCU, 3-wire On / Off valve	3-speed Fan	1 3-wire On / Off Valve			
	2-pipe FCU with floor heating, On / Off valve	3-speed Fan	1 On / Off Valve	1 Floor Heating		
	2-pipe FCU with TiO2 / ESP, On / Off valve	3-speed Fan	1 On / Off Valve	1 TiO2 / ESP		
	Water source heat pump	3-speed Fan		1 Compressor 1 Revert Valve		
	Boiler			Boiler		
T9800-TB21-1JA0	2-pipe FCU, Prop valve	3-speed Fan	1 Proportion Valve		1 x 0~10 VDC input for feedback signal 1 BI, Occupancy 1 Remote sensor	

Smart Thermostats Controllers

Solution Navigator

TEC3000

Stand-alone, BACnet® MS/TP or N2 Networked

The TEC3000 Color Series Thermostat Controllers are stand-alone and field-selectable BACnet® MS/TP or N2 networked devices that provide on/off, floating, and proportional control of the following:

- Local hydronic reheat valves
- Pressure-dependent VAV equipment with or without local reheat
- Two- or four-pipe fan coils
- Cabinet unit heaters
- Other zoning equipment using an on/off, floating, or 0 to 10 VDC proportional control input
- Single- or two-stage control of unitary rooftop units (RTUs)
- Single- or two-stage control of RTUs with economizers
- Single- or two-stage control of heat pumps
- Single- or two-stage control of heat pumps with economizers

Features

Two configurable binary inputs

- Provide additional inputs for advanced functions such as remote night setback, service or filter alarms, motion detector, and window status.

Field-Selectable BACnet® MS/TP or N2 Networked Communication (TEC36xx-1x-000 Models)

- Simplifies the upgrade from N2 networked communication to BACnet® MS/TP networked communication without changing hardware.

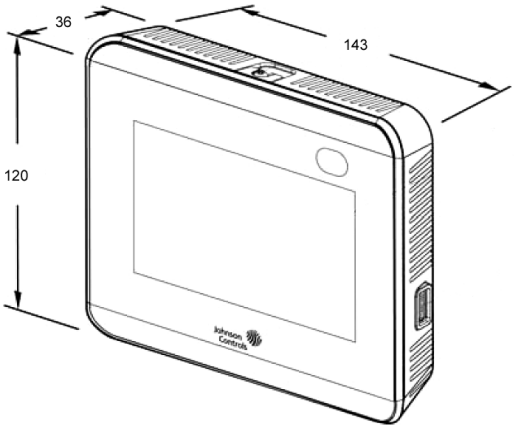
USB port configuration

- Rapidly clone the configuration between like units through simple backup and restore features from a USB drive to reduce installation time.

Programmable in seven languages

- Provides English, Spanish, French, German, Italian, Dutch, Portuguese (requires a downloadable language pack)

Dimensions (in mm)



Johnson Controls

TEC3000

Stand-alone, BACnet® MS/TP or N2 Networked

Features

Backlit full-color liquid crystal display (LCD)

- Offers an intuitive color backlit display that makes setup and operation quick and easy. The new display features on all models and offers real-time control status of the environment in easy-to-read, plain text messages with an adjustable backlight that brightens during user interaction.

Configurable touchscreen UI

- Facility managers can limit the user interaction with the thermostat controller display based on specific energy policies.

Various models available

- Offers models in modern black (*hex #2d2926 or RAL 9017*) or white (*hex #F4F5F0 or RAL 9016*) highgloss designs with or without the Johnson Controls logo.

End-of-line switch

- Simplifies the layout and installation of communication buses.

Mobile Access Portal (MAP) Gateway compatibility (MAP Release 4.0 or later)

- View the equipment and control the conditions through your mobile devices.

Onboard occupancy sensor (TEC3031-1x-000 and TEC3xx3-1x-000 Models)

- Provides energy savings in high-energy usage commercial buildings without additional installation time or cost.

Integral humidity sensor

- Monitors space humidity on all models. Activates dehumidification control on two-pipe fan coil units with reheat and four-pipe fan coil units with or without reheat.

Multiple fan configurations for fan coil equipment types

- Provide fieldselectable single-speed, multi-speed, and variable-speed fan control capabilities.

Full line of remote TE-6300 Series Temperature Sensors

- Support a wide usage commercial buildings without additional installation time or cost.

Built-in schedule object

- Allows all wireless and wired models of thermostat controllers to be scheduled as stand-alone devices; allows wireless and BACnet® MS/TP models to be defined and adjusted through the building automation system.

Optimal start

- Allows each thermostat controller to anticipate the heating or cooling needs of a space by starting the equipment early enough to reach the setpoint at the beginning of the scheduled occupancy.

Auto-tuned control loops

- Reduce commissioning time, eliminate change-ofseason recommissioning, and reduce wear and tear of the mechanical devices.

Load shed

- Commands a load shed input to offset the heating and cooling setpoints by a fixed amount on networked models. The change rate of the setpoints is adjustable. The load shed feature is in place to help satisfy the California Title 24 requirements that are defined in joint appendix JA5, section JA5.2.4 for demand signal response. The trigger for this event is defined in another controller and passed through the network command.

TEC3000

Stand-alone, BACnet® MS/TP or N2 Networked

Ordering information

Codes	Control Output	Color	JCI Logo
TEC3312-13-000	Stand-alone thermostat, FCU/VAV, ON/OFF or Floating, Dehumidification, Full color	Black	■
TEC3312-14-000	Stand-alone thermostat, FCU/VAV, ON/OFF or Floating, Dehumidification, Full color	White	■
TEC3313-14-000	Stand-alone thermostat, FCU/VAV, ON/OFF or Floating, Occupancy & Dehumidification, Full color	White	■
TEC3322-13-000	Stand-alone thermostat, FCU/VAV, 0-10VDC Proportional, Dehumidification, Full color	Black	■
TEC3322-14-000	Stand-alone thermostat, FCU/VAV, 0-10VDC Proportional, Dehumidification, Full color	White	■
TEC3323-14-000	Stand-alone thermostat, FCU/VAV, 0-10VDC Proportional, Occupancy & Dehumidification, Full color	White	■
TEC3330-13-000	Stand-alone thermostat, RTU/heat pump with Economizer, Full color	Black	■
TEC3330-14-000	Stand-alone thermostat, RTU/heat pump with Economizer, Full color	White	■
TEC3331-14-000	Stand-alone thermostat, RTU/heat pump with Economizer, Occupancy Sensor, Full color	White	■
TEC3612-13-000	MS/TP or N2 Thermostat, MSTP or N2, FCU/VAV, ON/OFF or Floating, Dehumidification, Full color	Black	■
TEC3612-14-000	MS/TP or N2 Thermostat, FCU/VAV, ON/OFF or Floating, Dehumidification, Full color	White	■
TEC3613-14-000	MS/TP or N2 Thermostat,, FCU/VAV, ON/OFF or Floating, Occupancy & Dehumidification, Full color	White	■
TEC3622-13-000	MS/TP or N2 Thermostat, FCU/VAV, 0-10VDC Proportional, Dehumidification, Full color	Black	■
TEC3622-14-000	MS/TP or N2 Thermostat, FCU/VAV, 0-10VDC Proportional, Dehumidification, Full color	White	■
TEC3623-14-000	MS/TP or N2 Thermostat, FCU/VAV, 0-10VDC Proportional, Occupancy & Dehumidification, Full color	White	■
TEC3630-13-000	MS/TP or N2 Thermostat, RTU/heat pump with Economizer, Full color	Black	■
TEC3630-14-000	MS/TP or N2 Thermostat, RTU/heat pump with Economizer, Full color	White	■
TEC3631-14-000	MS/TP or N2 Thermostat, RTU/heat pump with Economizer, Occupancy Sensor, Full color	White	■

Room Control Unit

Solution Navigator

T20

Room Operating Panel

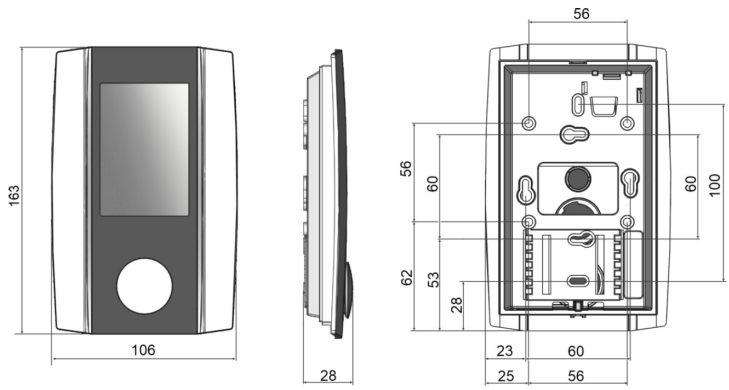
The T20 is a Room Operating Panel for climate, lighting and shade control. Intelligent internal room temperature measurement, optional with humidity, CO_2 or VOC and a monitoring function for colourful visualization of the measured values. The maintenance-free panel creates the conditions for a pleasant indoor climate and well-being.

Typical applications are office buildings, hotels, schools or cinemas. The room control unit has a high-resolution 3.5" display. The innovative and self-explanatory operation offers all relevant functions for an intelligent room automation.

Features

- Intuitive and comfortable user interface to control room climate, lighting and shading
- Individual scenes can be defined and called
- Integration of up to four sensors in one device (temperature, relative humidity, CO_2 and VOC)
- Clear visualization of values with trends and traffic light indication
- Push-and-rotary switch for an intuitive menu navigation
- Four configurable touch buttons
- High-quality 3,5" TFT display
- Outputs:
  RS485 Modbus, BACnet, KNX

Dimensions (in mm)



Johnson Controls

T20

Room Operating Panel

Ordering information

Codes	Measure Elements				Communication			Color	
	Temp	rH	CO_2	VOC	Modbus	BACnet	KNX	White	Black
T20-1B0-W	■					■		■	
T20-3B0-W	■	■	■			■		■	
T20-6B0-W	■		■			■		■	

Codes released on request

Codes	Measure Elements				Communication			Color	
	Temp	rH	CO_2	VOC	Modbus	BACnet	KNX	White	Black
T20-1M0-W	■				■			■	
T20-2M0-W	■	■			■			■	
T20-3M0-W	■	■	■		■			■	
T20-4M0-W	■	■		■	■			■	
T20-5M0-W	■	■	■	■	■			■	
T20-2B0-W	■	■				■		■	
T20-4B0-W	■	■		■		■		■	
T20-5B0-W	■	■	■	■		■		■	
T20-1K0-W	■						■	■	
T20-2K0-W	■	■					■	■	
T20-3K0-W	■	■	■				■	■	
T20-4K0-W	■	■		■			■	■	
T20-5K0-W	■	■	■	■			■	■	

Accessories (order separately)

Codes	Description
T00-000-T	USB Interface JCI

Solution Navigator

T21

Touch Room Operating Panel

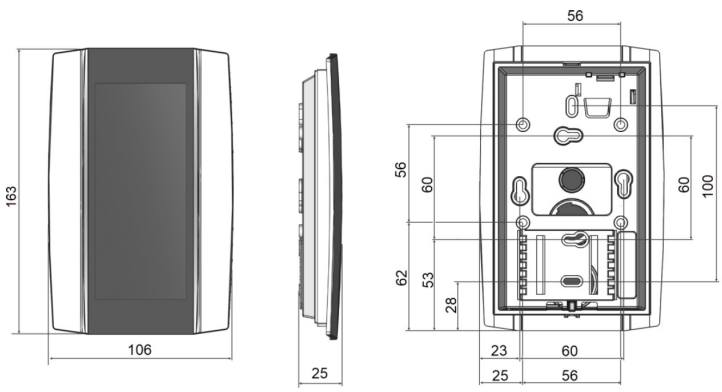
The T21 is a Touch Room Operating Panel for climate, lighting and shade control. Intelligent internal room temperature measurement, optional with humidity, CO2 or VOC and a monitoring function for colourful visualization of the measured values. The maintenance-free panel creates the conditions for a pleasant indoor climate and well-being.

Typical applications are office buildings, hotels, schools or cinemas. The room control unit has a high-resolution 4.8" touch display. The innovative and self-explanatory operation offers all relevant functions for an intelligent room automation.

Features

- Intuitive and comfortable user interface to control room climate, lighting and shading
- Individual scenes can be defined and called
- Integration of up to four sensors in one device (temperature, relative humidity, CO2 and VOC)
- ECO mode for an energy-efficient room control
- Clear visualization of values with trends and traffic light indication
- High-resolution 4,8" Touch screen with a real glass surface
- Digital input for external devices/sensors
- Outputs:
  RS485 Modbus, BACnet, KNX

Dimensions (in mm)



T21

Touch Room Operating Panel

Ordering information

Codes	Measure Elements				Communication			Color	
	Temp	rH	CO_2	VOC	Modbus	BACnet	KNX	White	Black
T21-1B0-W	■					■		■	
T21-3B0-W	■	■	■			■		■	

Codes released on request

Codes	Measure Elements				Communication			Color	
	Temp	rH	CO_2	VOC	Modbus	BACnet	KNX	White	Black
T21-1M0-W	■				■			■	
T21-2M0-W	■	■			■			■	
T21-3M0-W	■	■	■		■			■	
T21-4M0-W	■	■		■	■			■	
T21-5M0-W	■	■	■	■	■			■	
T21-2B0-W	■	■				■		■	
T21-4B0-W	■	■		■		■		■	
T21-5B0-W	■	■	■	■		■		■	
T21-1K0-W	■						■	■	
T21-2K0-W	■	■					■	■	
T21-3K0-W	■	■	■				■	■	
T21-4K0-W	■	■		■			■	■	
T21-5K0-W	■	■	■	■			■	■	

Accessories (order separately)

Codes	Description
T00-000-T	USB Interface JCI

Solution Navigator

T22

Touch Room Operating Panel

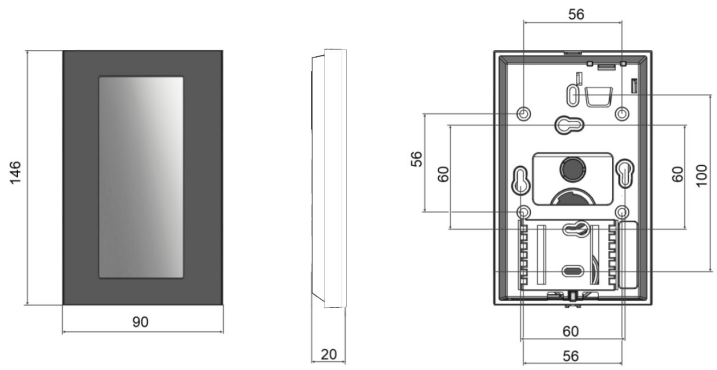
The T22 is a Touch Room Operating Panel for climate, lighting and shade control. Intelligent internal room temperature measurement, optional with humidity, CO2 or VOC and a monitoring function for colourful visualization of the measured values. The maintenance-free panel creates the conditions for a pleasant indoor climate and well-being.

Typical applications are office buildings, hotels, schools or cinemas. The room control unit has a high-resolution 4.8" touch display. The innovative and self-explanatory operation offers all relevant functions for an intelligent room automation.

Features

- Intuitive and comfortable user interface to control room climate, lighting and shading
- Individual scenes can be defined and called
- 2D room graphics to control lights and blinds
- Representation of individual logos (hotel, company logo, etc.)
- Integration of up to four sensors in one device (temperature, relative humidity, CO2 and VOC)
- ECO mode for an energy-efficient room control
- Clear visualization of values with trend logs and traffic light indication
- High-resolution 4,8" Touch screen with a real glass surface
- Digital input for external sensors/detectors (presence detector, window contact, etc.)
- Available in black and white
- Outputs:
  RS485 Modbus, BACnet, KNX

Dimensions (in mm)



Johnson Controls

T22

Touch Room Operating Panel

Ordering information

Codes	Measure Elements				Communication			Color	
	Temp	rH	CO_2	VOC	Modbus	BACnet	KNX	White	Black
T22-1B0-W	■					■		■	
T22-3B0-W	■	■	■			■		■	
T22-1B0-B	■					■			■
T22-3B0-B	■	■	■			■			■

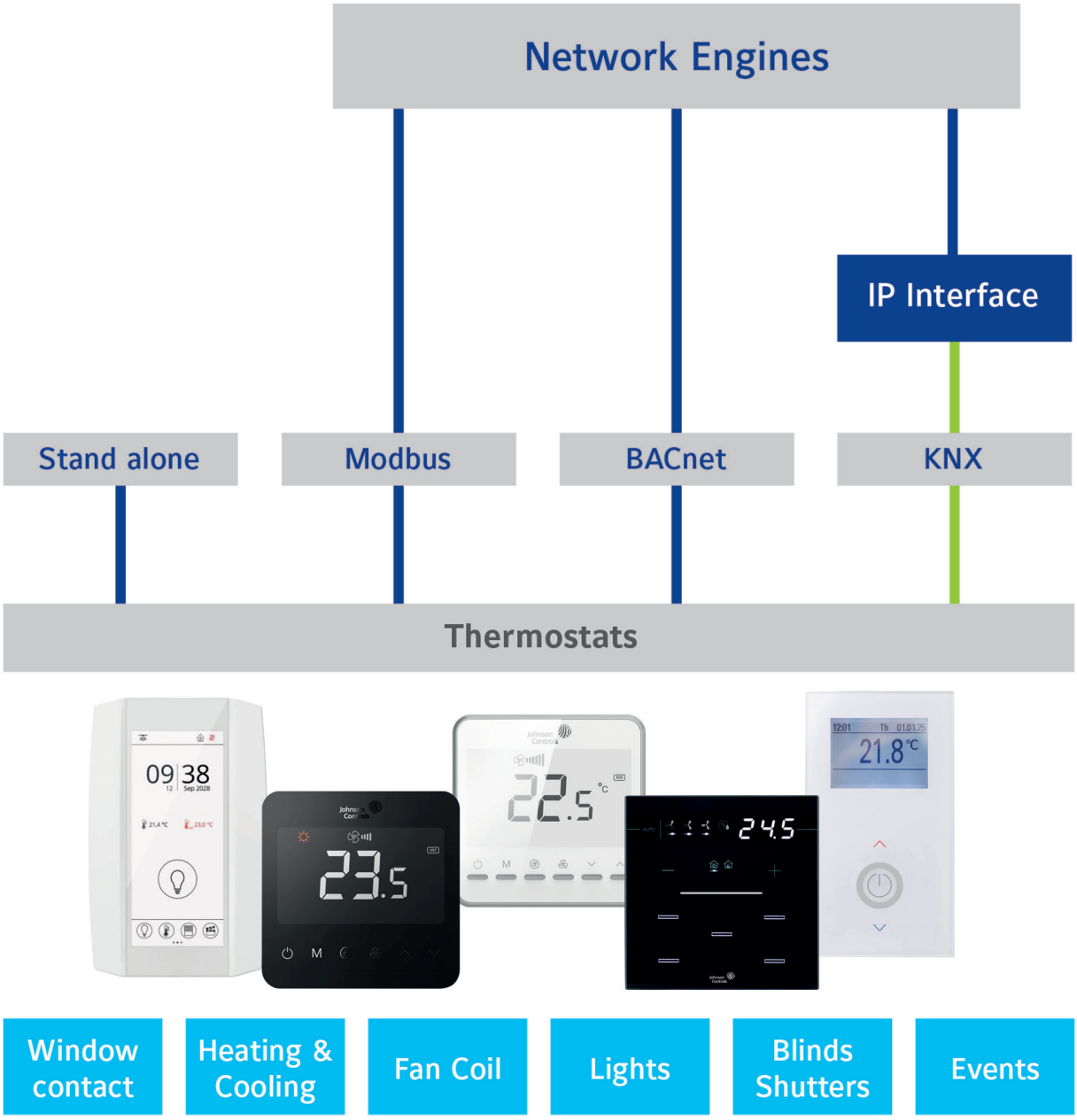
Codes released on request

Codes	Measure Elements				Communication			Color	
	Temp	rH	CO_2	VOC	Modbus	BACnet	KNX	White	Black
T22-1M0-W	■				■			■	
T22-2M0-W	■	■			■			■	
T22-3M0-W	■	■	■		■			■	
T22-4M0-W	■	■		■	■			■	
T22-5M0-W	■	■	■	■	■			■	
T22-1M0-B	■				■				■
T22-2M0-B	■	■			■				■
T22-3M0-B	■	■	■		■				■
T22-4M0-B	■	■		■	■				■
T22-5M0-B	■	■	■	■	■				■
T22-2B0-W	■	■				■		■	
T22-4B0-W	■	■		■		■		■	
T22-5B0-W	■	■	■	■		■		■	
T22-2B0-B	■	■				■			■
T22-4B0-B	■	■		■		■			■
T22-5B0-B	■	■	■	■		■			■
T22-1K0-W	■						■	■	
T22-2K0-W	■	■					■	■	
T22-3K0-W	■	■	■				■	■	
T22-4K0-W	■	■		■			■	■	
T22-5K0-W	■	■	■	■			■	■	
T22-1K0-B	■						■		■
T22-2K0-B	■	■					■		■
T22-3K0-B	■	■	■				■		■
T22-4K0-B	■	■		■			■		■
T22-5K0-B	■	■	■	■			■		■

Accessories (order separately)

Codes	Description
T00-000-T	USB Interface JCI

Overview


Network Engines
IP Interface
Stand alone
Modbus
BACnet
KNX
Thermostats
Window contact
Heating & Cooling
Fan Coil
Lights
Blinds Shutters
Events

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