

Smart
Diamond



WI-FI THERMOSTAT FOR FAN COIL




MADE IN ITALY

 Oseitron

SMART DIAMOND

WI-FI THERMOSTAT FOR FAN COIL



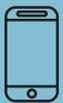
MODERN DESIGN



SEMI-RECESSED INSTALLATION



MODBUS® RTU VIA RS485



REMOTE CONTROL



MAXIMUM CONFIGURABILITY



Modern, industrial, classic – whatever the style of the environment, Smart Diamond seamlessly integrates with it. A minimal wall **thickness of only 11.5 mm**, grants an elegant and discreet standing in the room, providing a distinctive touch of design.

Smart Diamond can be used as a simple ON/OFF thermostat or as a programmable thermostat with weekly scheduling. It is the ideal solution for managing all common functionalities of a fan coil. The flexibility of **parameter configuration makes it adaptable to various types of systems.**

Wi-Fi connectivity allows the user to **remotely control Smart Diamond** by using Seitron Smart mobile app.



Technical Features

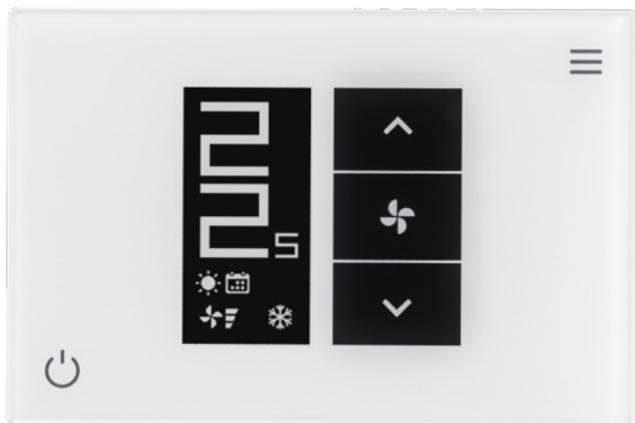
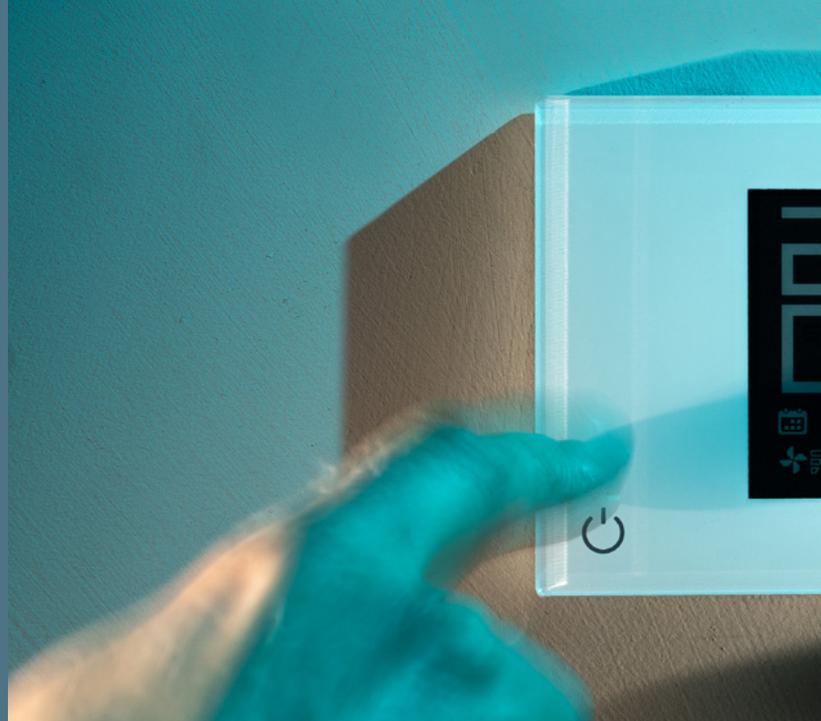
Power Supply:	85-264 V~ 50-60 Hz
Sensor Type:	NTC 10kΩ ±1% @ 25°C, Beta 3977 ±1% (25/85°C)
Control Range:	5.0-35.0 °C
Antifreeze:	0.0-20.0 °C
Measurement Range:	-10.0 to +50.0 °C
Resolution:	0.1 °C
Accuracy:	± 1 °C
Hysteresis:	0.2 °C (adjustable)
Fan Relay Outputs:	3 x 4(1)A 250V~
Actuator Relay Outputs:	2 x 3(1)A 250V~
Total Contact Rating:	9 A MAX
Proportional Outputs:	0-10 V (adjustable)
Wi-Fi:	802.11 b/g/n
Antenna Type:	Internal
Communication Port:	Modbus RTU (via RS485)
Dimensions (L x W x D):	120 x 80 x 12 mm
IP Rating:	IP 30
Operating Temperature:	0 °C to +40 °C

11,5 mm



SMART DIAMOND

COMPLETE FUNCTIONALITIES



Smart Diamond provides many functions and configuration possibilities by setting parameters.

Pre-configured parameters settings are available, based on the characteristics of the system:

- ✓ 2-pipe or 4-pipe system, floor heating, or resistance heating
- ✓ AC motor or EC motor
- ✓ ON/OFF or proportional actuator

Over 100 parameters to customize/configure:

- ✓ User interface
- ✓ System
- ✓ Regulation
- ✓ Modbus® communication



Manual or automatic selection of fan speed for 3-speed AC motor or 0 .. 10 V EC motor

Manual, centralized, or automatic selection of **summer/winter mode**.



Automatic mode with changeover based on the supply water temperature (for 2-pipe systems) or on the neutral zone (for 4-pipe systems)

Multiple operating modes:

- 1 setpoint thermostat
- 2 setpoint thermostat (comfort/economy)
- Programmable thermostat with weekly programming



Thermostatic control of the valves, the fan, or both

2 outputs 0 .. 10 V for EC fan or actuators.



5 relay outputs for 3-speed AC fan or ON/OFF actuators

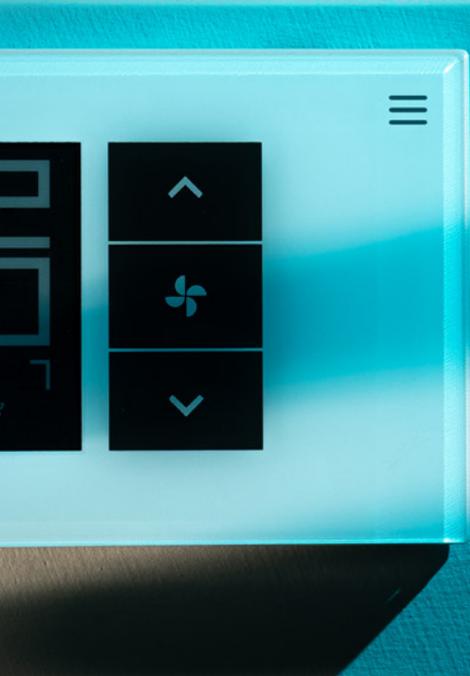


2 remote temperature sensor inputs for room temperature and supply water temperature.

1 configurable digital input: economy mode, window contact, etc.



Inputs and outputs reconfigurable for **special functions** (examples: resistance heater, heat pump, floor heating system)



DIFFERENT SYSTEMS

one single solution

Types of systems managed:

- 2-pipe
- 4-pipe
- Floor systems
- Electric heaters
- Integrated electric heaters

Types of fan coils:

- With 3-speed AC motor
- With EC motor 0 .. 10 V

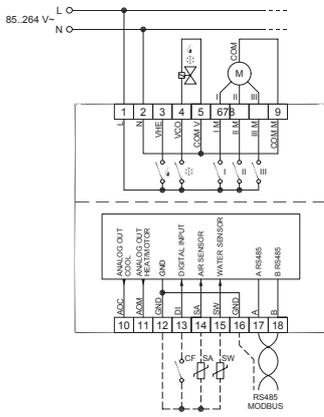
Types of valves:

- ON/OFF
- Proportional



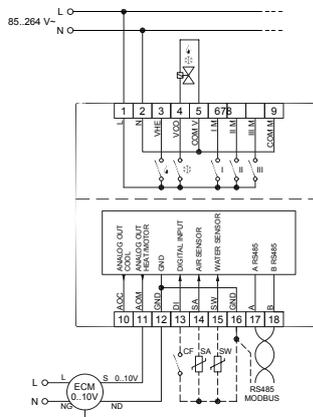
2-PIPE SYSTEMS

application examples



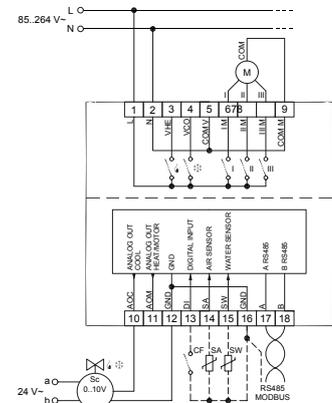
Wiring diagram for:

- 2-PIPE SYSTEM
- 1 ON/OFF Valve for Heating/Cooling
- 1 3-Speed AC Motor



Wiring diagram for:

- 2-PIPE SYSTEM
- 1 ON/OFF Valve for Heating/Cooling
- 1 EC Motor 0 .. 10 V

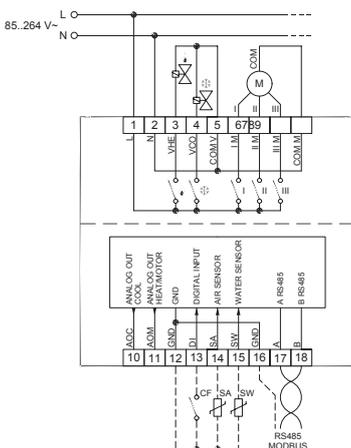


Wiring diagram for:

- 2-PIPE SYSTEM
- 1 0..10 V Actuator for Heating/Cooling
- 1 3-Speed AC Motor

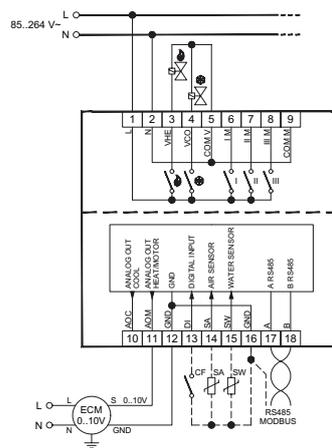
4-PIPE SYSTEMS

application examples



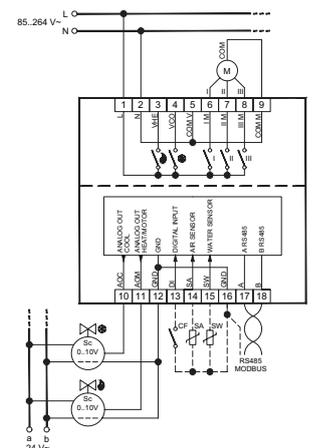
Wiring diagram for:

- 4-PIPE SYSTEM
- 2 ON/OFF Valve for Heating/Cooling
- 1 3-Speed AC Motor



Wiring diagram for:

- 4-PIPE SYSTEM
- 2 ON/OFF Valve for Heating/Cooling
- 1 EC Motor 0 .. 10 V



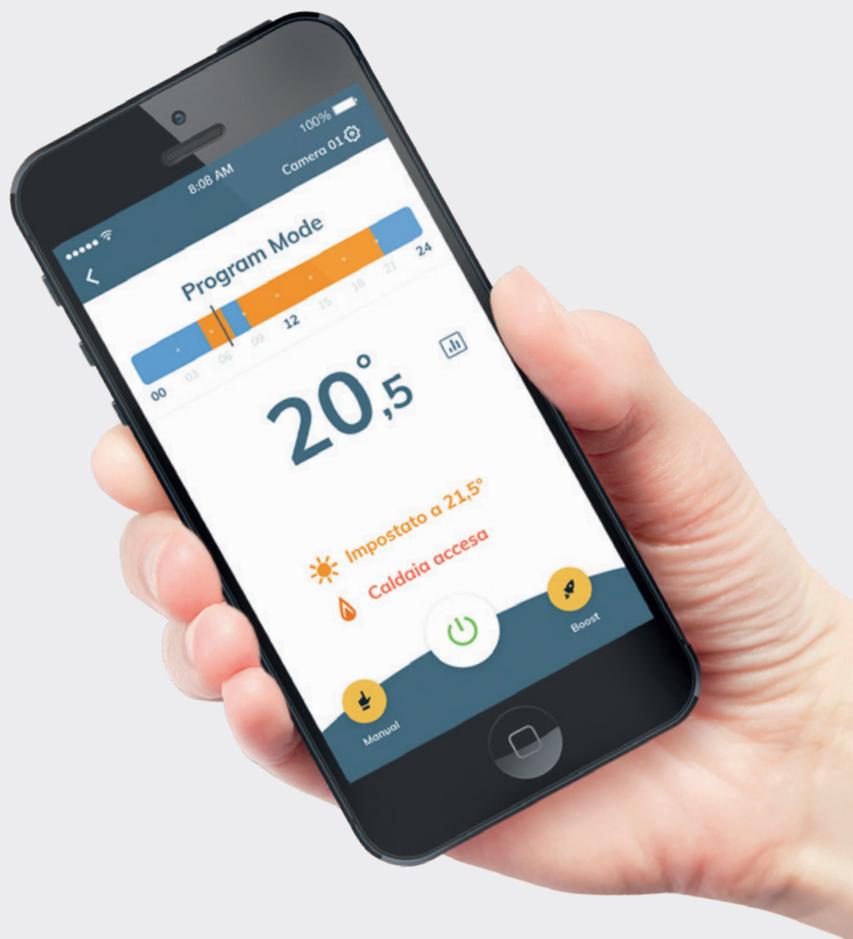
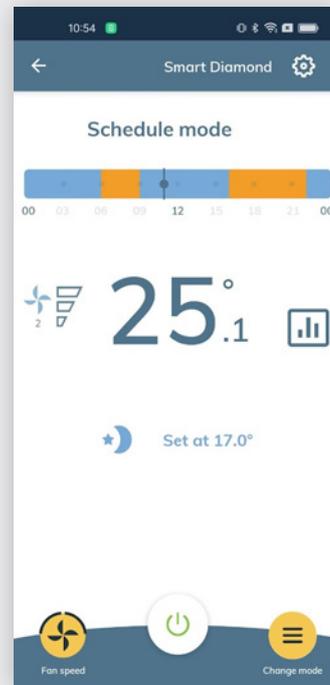
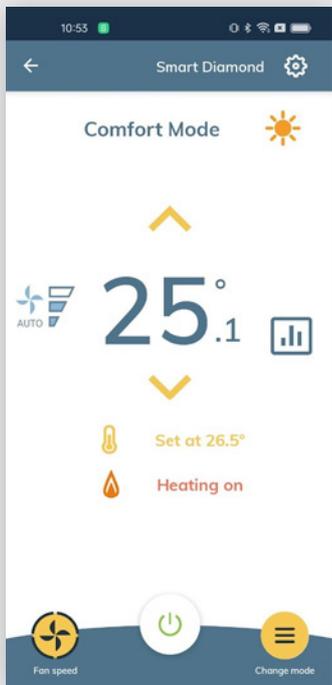
Wiring diagram for:

- 4-PIPE SYSTEM
- 2 0..10 V Actuator for Heating/Cooling
- 1 3-Speed AC Motor

Seitron Smart App

Seitron Smart allows full control of the Smart Diamond thermostat directly from your smartphone.

By using the app, temperature and fan speed programming, other than heating/cooling mode setting, becomes quick and simple.



Seitron Smart
Temperature under control



Google, Google Play and YouTube are trademarks of Google LLC.

SEITRON SPA

36065 - Mussolente (VI) - ITALY
Via del Commercio, 9/11
Tel. +39 0424 567842
info@seitron.it - www.seitron.it

