

TNG15



M2S
ELECTRONICS

4,3" resistive touchscreen
thermostat platform
connects most conventional wired systems
to provide local or smartphone based
remote control

NEW!

- Automatic software updates via over the air WiFi 3or4G - SPRING 2017
- Compatible with androids apps - SPRING 2017

Description

The TNG15 brings the convenience of a large LCD display to thermostats.

As a mid-range thermostat, it offers the most common features and functionalities in an elegant and modern look.

The choice of physical pushbuttons or tactile screen allows you to offer both versions based on the customer preference or product strategy.

The TNG15 based thermostats are communicating, which enables their use for either standalone, central operation, or as one controller in a multi-room, intelligent system. The flexible communication protocol also paves the way for remote sensors, remote controllers or even Internet-enabled system through a WiFi bridge.

The TNG15 platform is provided with a development kit including everything needed for most applications, with the simple M2S «Control to Go» framework to define your own menus, control logic or algorithms. Alternatively, our engineers can implement those for you.

The control logic included in the TNG15 can be used as the main algorithm to control your appliance, or as a remote controller communicating with your intelligent appliance.

The TNG15 thermostat, the flagship of your system controls.

Key features

Communication

- BACnet and Modbus ready
- Freeform network topology
- No termination resistor or jumper

Sensors available

- Ambient air quality sensor
- Ambient air relative humidity sensor
- Ambient air temperature sensor
- Communication with remote sensors

User interface

- LCD display with LED backlight
- Touchscreen

Mechanical

- Blends in with light switches
- Screw terminal for quick field wiring

Control logic

- Real time clock for time-based operation (1x RTC + battery backup)
- Non volatile memory for settings storage

Tailored to fit your needs

- LCD artwork and backlight color
- Enclosure printings, colors, logo
- User interface behavior
- Control logic and algorithms

Specifications

Ambient air quality sensor

TVOC, CO₂, PM available

Ambient humidity sensor

Up to ±1% precision
No calibration required

Ambient temperature sensor

Up to ±1°F/0.5°C precision

LCD display

Tactile screen option
High contrast
Wide viewing angle
LED backlight
Up to 128 segments

Pushbuttons

Soft touch
Tactile feedback
Touchscreen

Dimensions (H x W x D)

4.39 x 5.20 x 1.10 in
111 x 132 x 28 mm

Electrical interface

4 wires, 22-14 AWG
Screw terminals

Operating temperature

32–122F (0–50°C)

Storage temperature

-22–131F (-30–55°C)

Operating relative humidity

0–95% non condensing

Communication

Wifi 802.11 option
Up to 4000 ft total length
Based on TIA/EIA-485
Multi-master
Fault tolerant
2.4GHz IEEE
802.11b/g/n compliant
2x Relay outputs
2x Analog outputs 0-5V
6x Thermostat inputs
1X USB port

Software

1x BacNET and Modbus
Openweather API access
Soft AP or client Http server
Time server: time.nist.gov
FreeRTOS Embedded Design
Field reprogrammable :
USB/WiFi
WiFi update coming in
Spring 2017

The images, texts, graphics, information and specifications are not contractual. Some elements and options can be modified. Pictures contain actual customized elements.

M2S HVAC15 controls family

OV15

LT15

CHU15

EVO15

TNG15

TOUCH15



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