

Infinity

Smart Sensor LED/LCD Display Temperature Sensors

Andover Controls Smart Sensor combines an attractive display with a room temperature sensor to provide users with a cost effective way to view or modify VAV box operation. It is designed for use with the Andover Controls TCX 866 VAV controller and can also accomplish many local control and monitoring tasks.

The standard Smart Sensor provides a two character LED display and a 6 button programmable keypad that enables operators and occupants to change setpoints, monitor occupancy status and turn equipment on and off. An enhanced version of the Smart Sensor is also available with a 4-digit custom LCD that provides the following icons: PM, %, °, Setpoint, Cool, Heat, CFM, Fan, OA, and SP.

The function keys can be custom programmed to perform a wide variety of functions, including switching a specific zone to occupied mode, signaling an alarm condition, adjusting the amount of override time, arming or disarming a security system, and enforcing password security. Programming the display and function keys is done with Andover Controls' *Plain English*® programming language.

The Smart Sensor comes in a well-ventilated plastic enclosure. The active sensing element is a highly stable, precision thermistor, accurate to within $\pm 0.36^{\circ}\text{F}$. The sensor has an operating range of 32°F to 105°F (0°C to 40°C). Both versions of the Smart Sensor provide a connection for the Andover Controls *Infinity* Lap-Top Service Tool.



FEATURES

- **Accurate, Reliable Type III Thermistor**
- **Two 7-Segment LED Display or Four Digit Custom LCD Display**
- **6-Button Programmable Keypad**
- **Built-In Service Port for Andover Lap-Top Service Tool**
- **Powered Directly from Andover Controls' TCX 866 VAV Controller**

SPECIFICATIONS

Sensing Element:	Type III Thermistor, 10,000 ohms @ 77°F (25°C)
Range:	32°F to 105°F (0°C to 40°C)
Accuracy:	Thermistor ± 0.36°F (± 0.2°C)
Stability:	Thermistor will not deviate from accuracy spec for minimum of 5 years
Wire Specifications:	18, 20, 22 or 24 gauge, 3 conductor, unshielded wire An additional single pair twisted shielded is required for Lap-Top Service Tool connection
Maximum Distance to Sensor:	18 gauge wire: 1,200 ft. with less than 0.18°F (-17.67°C) error 20 gauge wire: 790 ft. with less than 0.18°F (-17.67°C) error 22 gauge wire: 500 ft. with less than 0.18°F (-17.67°C) error 24 gauge wire: 300 ft. with less than 0.18°F (-17.67°C) error
Dimensions:	4.50"H x 3.50" W x 0.813"D (11.5 cm H x 8.9 cm W x 2.0 cm D)
Color:	Off-white
Power:	One Smart Sensor is powered directly from Andover Controls' TCX 866

ORDERING INFORMATION

SMART SENSOR

MODEL	DESCRIPTION
TTS	Space Temperature Sensor, Type III Thermistor, 10,000 ohms @ 77°F
SENSOR MODEL	
SD	Smart Sensor w/Display
SENSOR DISPLAY TYPE	
LED	Two, 7-Segment LED Display
LCD	Four Digit Custom LCD Display
PACKAGING	
1	Single Sensor

TTS	-	SD	-	LED	-	1	Example: TTS-SD-LED-1 Smart Sensor w/LED Display
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