Deluxe Wall Temperature Sensor, Protocol Communication

TW Protocol Series

5 Year Warranty

SPECIFICATIONS

Input Voltage	Class 2; 12 to 30VDC, 24VAC, 50/60Hz, 100mA max.
Operating Temp	0° to 50°C (32° to 122°F)
Housing Material	High impact ABS plastic , UL 94 V0
Protocol	BACnet or Modbus (selectable)
Connection	2-wire RS-485
Data Rate	9600, 19200, 38400, 57600 (Modbus), bps (selectable); 9600, 19200, 38400, 76800 (BACnet), bps (selectable)
Parity	None/Odd/Even (selectable-Modbus); None (BACnet)
Address Range	1-127
Setpoint Slider Resolution (Optional)	1% full scale
Override Button (Optional)	Remotely readable and resettable
Sensor Type	Solid-state, integrated circuit
Accuracy	±0.5°C (±.9°F) typical
Resolution	0.1°C (0.2°F)
Range	10° to 35°C (50° to 95°F)

EMC Conformance: Low voltage directive 2006/95/EC and EMC directive 2004/108/EC. EMC Special Note: Connect this product to a DC distribution network or an AC/DC power adaptor with proper surge protection (EN 61000-6-1:2007 specification requirements)

TWLP

Modbus and BACnet Protocol Communication

FEATURES

- Embedded BACnet and Modbus communication protocols...provides ease of integration
- Configurable to multiple baud rates...ensures network compatibility
- Network configuration eliminates the costs of home run wiring and analog inputs required by traditional sensors
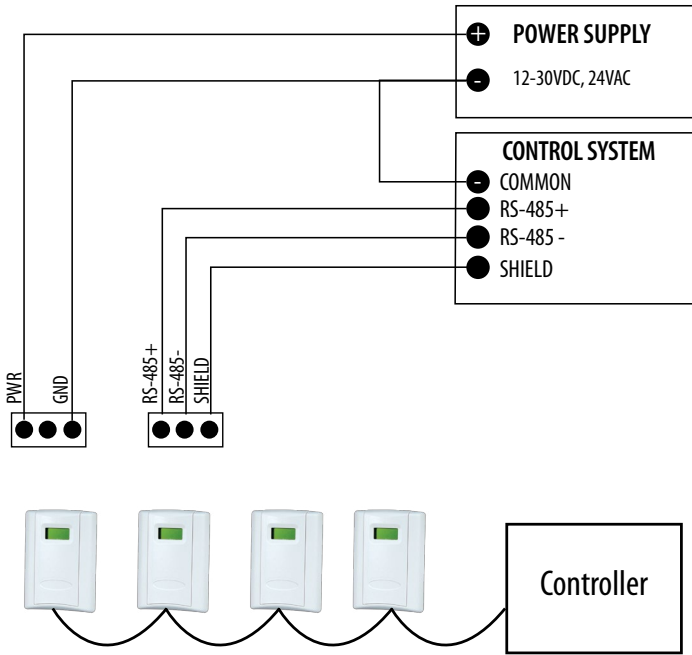- Setpoint and override activation represented in protocol...eliminates costly wiring and inputs

DESCRIPTION

TWLP Series features embedded BACnet & Modbus communication protocols to communicate temperature readings to a building automation system controller. The setpoint slider and pushbutton override options offer additional local input.
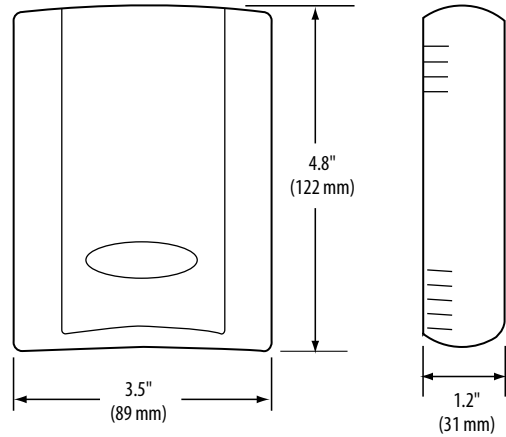
APPLICATIONS

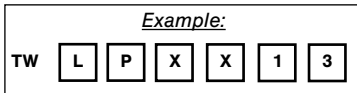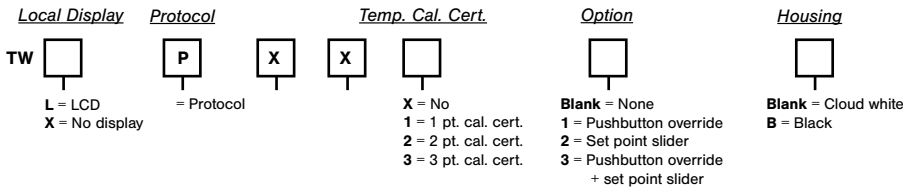- Temperature control in office buildings & schools with systems utilizing BACnet or Modbus protocol

WIRING DIAGRAM

➕ **POWER SUPPLY**

➖ 12-30VDC, 24VAC

CONTROL SYSTEM
- COMMON
- RS-485+
- RS-485 -
- SHIELD

PWR GND

RS-485+ RS-485- SHIELD

Controller

DIMENSIONAL DRAWING

4.8"
(122 mm)

3.5"
(89 mm)

1.2"
(31 mm)

ORDERING INFORMATION

CE

Local Display	Protocol			Temp. Cal. Cert.	Option	Housing
TW ☐	**P**	**X**	**X**	☐	☐	☐

Local Display
L = LCD
X = No display

Protocol
= Protocol

Temp. Cal. Cert.
X = No
1 = 1 pt. cal. cert.
2 = 2 pt. cal. cert.
3 = 3 pt. cal. cert.

Option
Blank = None
1 = Pushbutton override
2 = Set point slider
3 = Pushbutton override
    + set point slider

Housing
Blank = Cloud white
B = Black

Example:

TW	L	P	X	X	1	3

ACCESSORIES

Handheld air quality testers (U003-0007, U003-0015, U003-0004, U003-0008)
Replacement covers for wall units (AA51, AA51B, AA52, AA52B)
Replacement cloud white wall housing (AA55)

U003-0007   U003-0015   U003-0004   U003-0008

AA55   AA51/AA51B   AA52/AA52B