DTS900 & DTS900M

Temperature Sensor
Installation Manual

DTS900   DTS900M

features

- **Wide measurement range** - 0º to 50ºC, accuracy +/- 1ºC

- **Available with or without user adjustable knob**

- **Status LED** - Indicates Heating, Cooling, Idle modes

- **Many Adjustable Parameters** - Including top and bottom set points, hysteresis, on and off timers

- **1 x RS485 DyNet Port -** Available on a 5 way screw terminal strip

- **Powerful Internal PLC -** Custom scripts can be written to provide process control based on conditional logic and protocol translation between Dynalite's DyNet and other protocols

- **Powered from the DyNet Network –** No need for an external power supply

important notes

Read Instructions – We recommend that you read this Instruction Manual prior to commencement of installation.

Special Programming – This device will only operate in basic modes unless programmed via a computer. If programming is required, contact your local agent for details.

Installation Location – Install on a vertical surface in a dry location, at chest height.

RS485 Data Cable – Use screened, stranded RS485 data cable with three twisted pairs. Segregate from mains cables by 300mm minimum. Connect devices in a 'daisy chain'. A data cable that is connected to an energised device is live. Do not cut or terminate live data cables.

dimensions

71.0   25.0   4.0

71,0   59.8
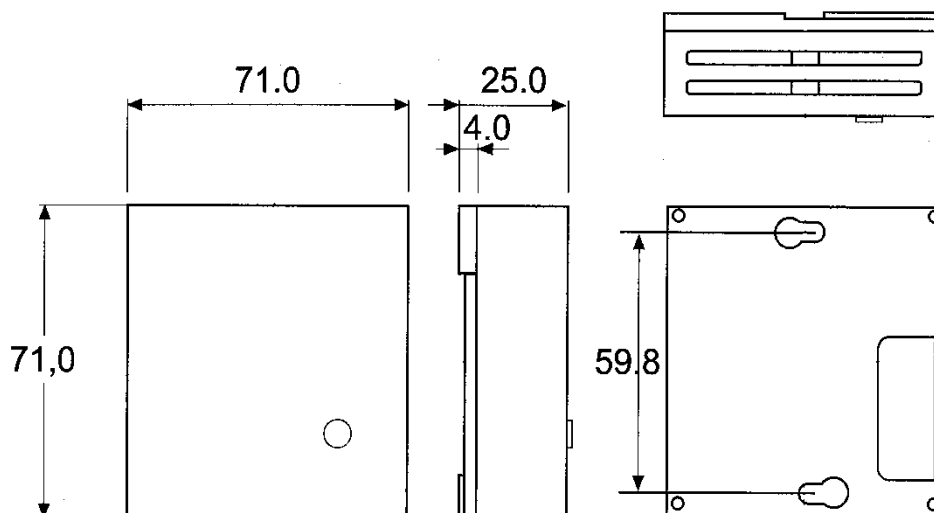
installation steps

1. Select a suitable location, which should be a vertical surface such as a wall at approximately 1.5 meters height from the floor. Do not install the DTS900 where it will be affected by:
   * Drafts, or dead spots behind doors or in corners.
   * Hot or cold air from ducts.
   * Radiant heat from sun or appliances.
   * Concealed pipes and chimneys.
   * Unheated or uncooled areas behind the DTS900, such as an outside wall.

2. On the front cover remove the screw cover if DTS900 or knob if DTS900M and remove the front cover retaining screw. Remove the front cover then mount the base to the wall using the 2 screws provided.

3. Connect the RS485 cable to the DyNet 5 way terminal strip. Note that this device consumes 20mA of power from the DyNet network.

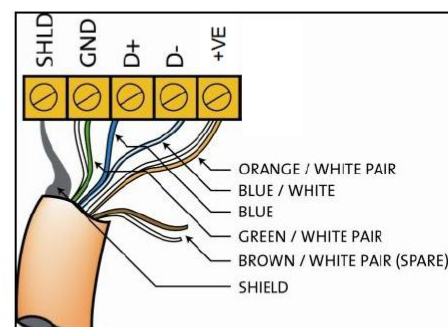4. Replace the front cover screw and plug / knob.

Connecting Data Cable

Connect Data Cable in a 'Daisy Chain'
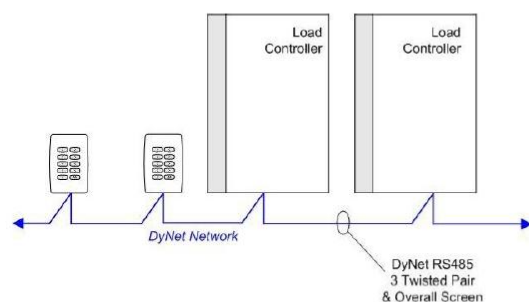
RJ12 Socket Connections
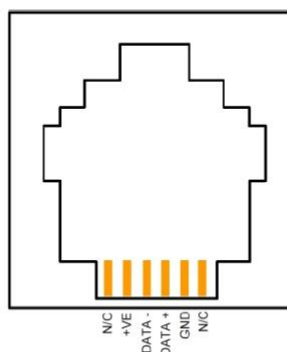
Serial Cable Permanent Connections

Recommended Cable Colour Coding

Green/White Pair	paralleled for GND
Orange/White Pair	paralleled for +12V
Blue/White Pair	Blue for DATA+
	White for DATA-
Brown/White Pair	Spare, use for Shield on unshielded cable

Recommended Cable Types

Belden:	9503	M&M cable:	B9503CS
Garland:	MCP3S	Multicables:	AWME120236209220
Hartland:	HCK603	RS Components:	368-687
M&M Cable:	B2003CS	Dynalite:	DYNET-STP-CABLE

product specifications

Supply:	9 - 16V DC @ 20 mA from the DyNet network
Control IO:	1 x RS485 unterminated DyNet serial port, consisting of 1 x 5 way terminal strip
Measurement Range:	0º to 50ºC, accuracy +/- 1ºC
User Controls:	- LED indicator: Blue = Cool, Violet = Idle, Red = Heat
	- Temperature set point knob (DTS900M only)
Software Parameters:	- Current temperature - read only
	- Low Setpoint - adjustable 0º to 50º
	- Low Setpoint Max On / Off Time
	- High Setpoint - adjustable 0º to 50º
	- High setpoint Max On / Off Time
	- Hysteresis - adjustable +/- 0º to 5º
Compliance:	CE, C-Tick
Operating Environment:	0º to 50ºC ambient temperature, 0% to 95% RH non condensing
Construction:	ABS plastic wall mount enclosure
Dimensions:	H 71mm x W 71mm x D 25mm
Weight:	0.11Kg