

CLS-DT Duct Temperature Sensor

Applications & Features

- Apply for Duct Temperature measurement
- High performance RTD, ensure accurate temperature measurement
- Multiple output optional, Light and state of art housing, easy installation
- Over voltage and reverse polarity protection, high reliability and anti-interference capability
- Wide temperature range and fast response
- High protection rate up to IP65

Specifications

Sensor: RTD

Range: -40~70°C

Output: PT1000/ NTC10K-II

Accuracy: PT1000, $\pm 0.2^{\circ}\text{C}@25^{\circ}\text{C}$, NTC10K-II, $\pm 0.3^{\circ}\text{C}@25^{\circ}\text{C}$

Storage Temperature: -30~70°C

Wiring: 2 wires or 3 wires (RTD)

(3 wires connection could obtain better accuracy)

Work Temp.(Whole product): -40~70°C, 0~95%RH (Non cond.)

Medium Temperature(Probe): -40~100°C

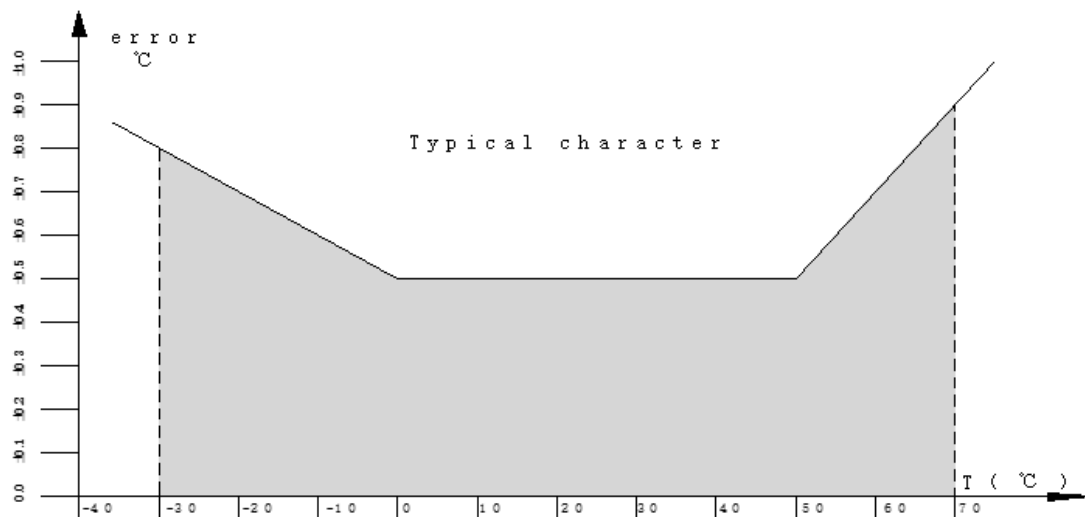
Housing: fireproof ABS, SS probe($\varnothing 6\text{mm}$), SS Well

Protection: IP65

Weight: 270g

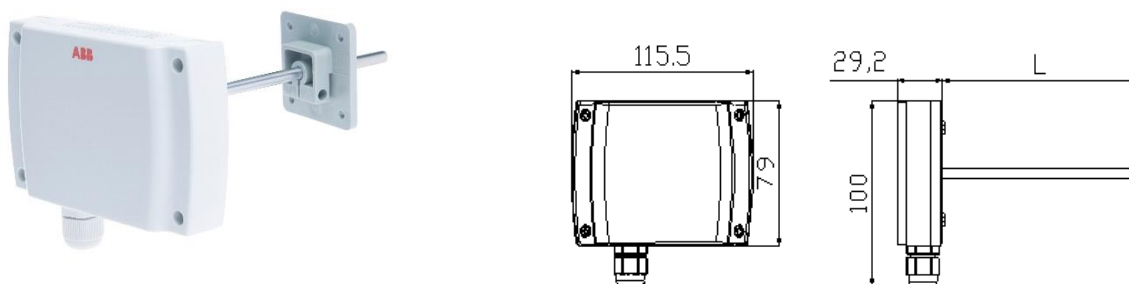
Approval: CE

Accuracy curve

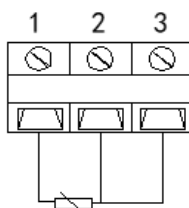


Selection table

ABB series	Description
CLS-DT-11	Duct Temperature Sensor,PT1000,75mm,IP65
CLS-DT-12	Duct Temperature Sensor,PT1000,125mm,IP65
CLS-DT-13	Duct Temperature Sensor,PT1000,200mm,IP65
CLS-DT-21	Duct Temperature Sensor,NTC10K-II,75mm,IP65
CLS-DT-22	Duct Temperature Sensor,NTC10K-II,125mm,IP65
CLS-DT-23	Duct Temperature Sensor,NTC10K-II,200mm,IP65

Appearance & size**Connection**

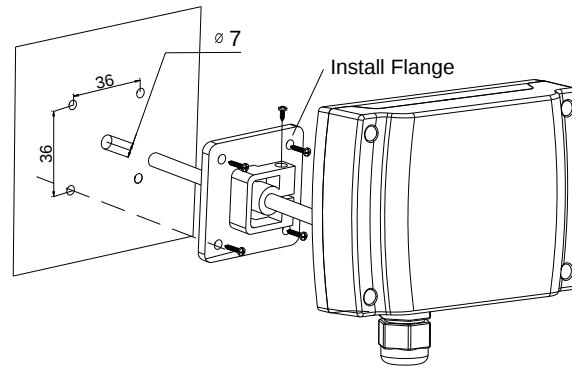
Different models have different electrical terminals. Please wire according to the wiring diagram on specific product.

Thermistors/RTD Output

2 wire use terminal 1 and 2

3 wire use terminal 1 、 2 and 3

Installation and description



- The install flange is recommended for installing the CLS-DT. The depth being inserted is adjustable. Open a hole of $\varnothing 7\text{mm}$ on the duct. Install the flange with the duct using 4 screws, and use another screw on it to tighten the probe and the whole CLS-DT. Last, the duct hole should be air-tight after installation.
- For wiring, remove the front cover. Install the drain on the base and ensure it is completely air-tightened (by the seal ring). Then wire according to the diagram inside the cover. Restore the front cover. Make sure to install the cover completely air-tightened with the base (by the seal ring) so that the whole housing could meet up to IP65 protection.

Attention

It should be power OFF during installing and wiring. When using 24VAC, it is strongly recommended to power the unit with independent transformer. If sharing a 24VAC transformer with other equipments such as controllers, transmitters or actuators, please make sure the terminals 24V and GND are connected correctly. Otherwise, it will perhaps reduce serious damages.

The temperature sensor can only be powered less than $100\text{mW}@25^{\circ}\text{C}$. If exceed, the thermistor/RTD will be damaged.

Maintenance

ABB LV Installation Materials Company Limited, Beijing CN

No.17 Kang ding Street, Beijing Economic-Technological Development Area 10076, P.R. China. Zip code: 100176

<http://www.abb.com>

Tel: +86 400-820-9696

Scan the QR code to go ABB official web page and get more product info



Warning! Installation by person with electrotechnical expertise only.

Warnung! Installation nur durch elektrotechnische Fachkraft.

Avvertenza! Fare installare solo da un elettricista qualificato.

Avertissement! Installation uniquement par des personnes qualifiées en électrotechnique.

¡Advertencia! La instalación deberá ser realizada únicamente por electricistas especializados.