

CLS-WT Water Pipe Temperature Sensor

Applications & Features

- Apply for water pipe 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: High accuracy thermistor or 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.)

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

Protection: IP65

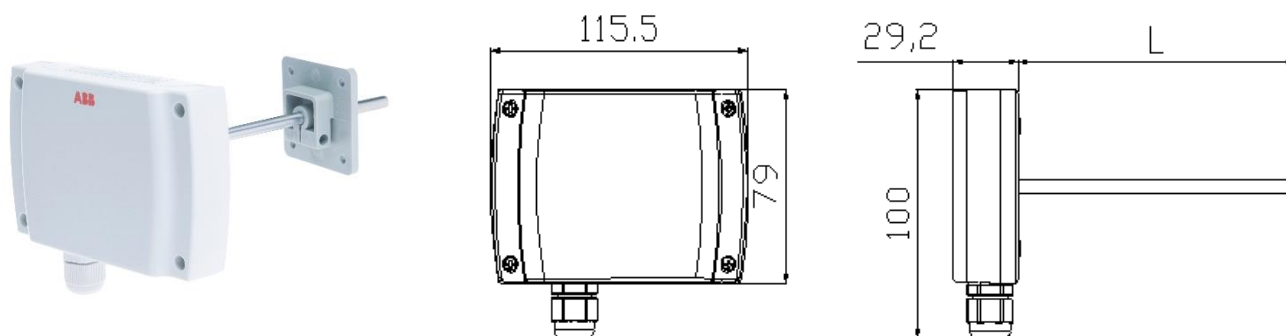
Weight: 340g

Approval: CE

Selection table

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

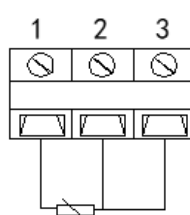
Appearance & size



Connection

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

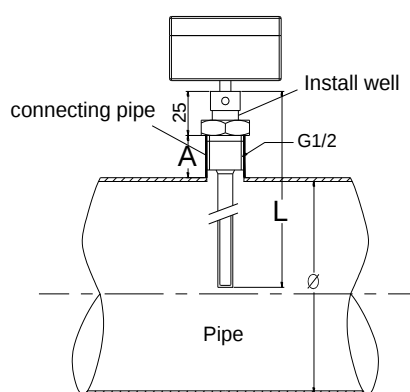
Thermistors/RTD Output



2 wire use terminal 1 and 2

3 wire use terminal 1 、 2 and 3

Installation and description



E.g.: If immersion depth is $1/2\varnothing$
the length of connecting
pipe is $A=L-25-1/2\varnothing$

CLS-WT installation should use pipe sleeve (pipe sleeve outer diameter 26.5mm x length 37). It is recommended that the opened hole diameter on the pipe is larger than the outer diameter of the sleeve by 1-2mm (the specific gap is determined by the convenience of welding and sealing), the sleeve and the pipe are firmly welded and sealed. Tighten the installation well to ensure the pipe pressure seal. Insert the probe to the bottom of the well and tighten it with a fixing screw.

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 100mW@25°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.