

# External water temperature sensor TW-TH16

## 1. Parts that are required to install an external water temperature sensor

- (1) External water temperature sensor
- (2) Wiring to connect the sensor and the unit\*
- (3) Wiring terminals to connect the wiring to the sensor and the terminal block on the unit (Four for M4 screws)\*

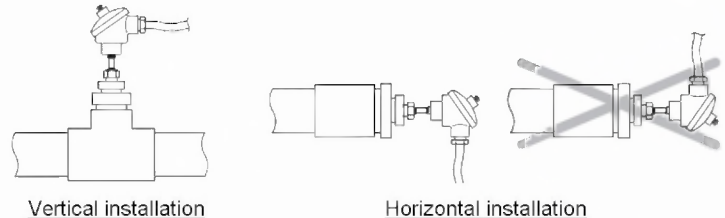
\*Items (2) and (3) are field supplied.

## Wire specifications

Wire size	2-core cable Min. 1.25 mm <sup>2</sup>
Type	CVVS or CPEVS
Maximum length	20 m

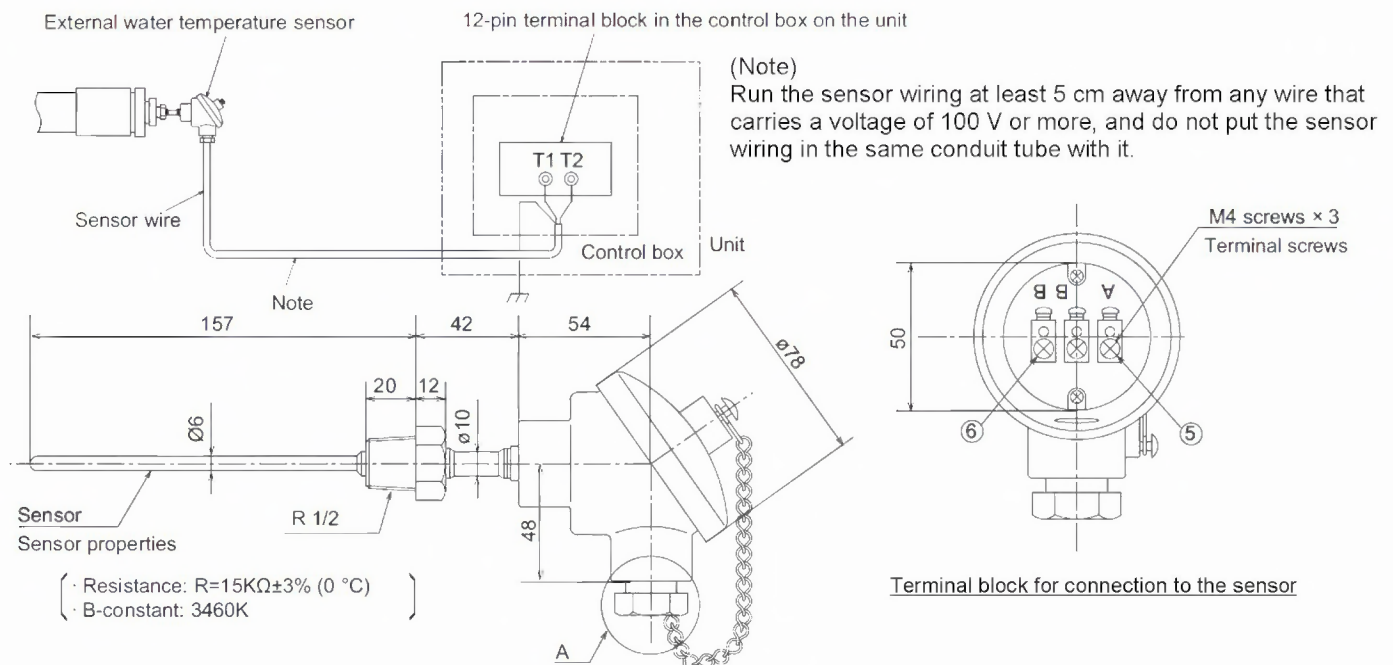
## 2. Installing the external water temperature sensor

- Install the external water temperature sensor where the water pipes merge or on the load-side tank as shown in the figure at right.
- Install horizontally or vertically on top of the pipe.
- When installing horizontally, make sure the wire faces down.



## 3. Wiring the external water temperature sensor

Connect the external temperature sensor wiring to the terminal block in the control box on the unit as shown in the figure below.

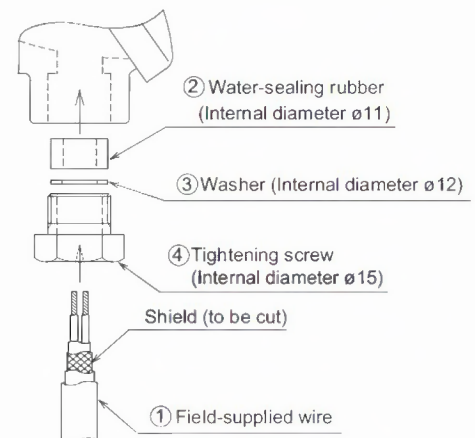


Connect the sensor wiring to terminals T1 and T2 of the 12-pin terminal block in the control box on the unit.

Connect the shield to the earth terminal.

Thread the wire to the external water temperature sensor through parts ② through ④ as shown in the figure at right. Attach M4 terminals (field-supplied) to the wires, and connect them to ⑤ and ⑥ (terminals A and B).

After the wire is connected, securely tighten the tightening screw ④, and then caulk the gap between the wire ① and the tightening screw to keep water from entering.



Detailed view of the area labeled "A" in the figure above