



FI-T15

Temperature Sensors 10A/15A



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		FI-T15	
Supported pipe diameter		3/8", 1/2" (10A, 15A) ø14–22 ø0.55"–0.87"	
Supported pipe materials		Metal piping	
Supported temperature range		–20 to +180°C –4 to +356°F ^{*1}	
Display method		Organic EL, status indicator light	
Display resolution		0.1°C 32.18°F	
Response time		5 s (50% response), 15 s (90% response) ^{*2}	
Display amplifier averaging time		0.1 s / 10.0 s / 20.0 s / 30.0 s / 60.0 s / 120.0 s / 300.0 s	
Measurement accuracy		±0.5°C ±0.9°F (pipe temperature –20 to +80°C –4 to 176°F) (ambient temperature of 25°C 77°F) ^{*2*3} ±1.0°C ±1.8°F (pipe temperature 80–180°C 176–356°F) (ambient temperature of 25°C 77°F) ^{*2*3}	
Hysteresis		Variable	
Measurement principle		Pt100 4-wire type	
Power I/O connector		M8 4-pin connector	
Power supply	Current consumption	20 mA or less (excluding load current) ^{*4}	
When used standalone	I/O (switchable)	Output (Ch1/Ch2)	Control output: switching NPN/PNP setting Open collector output: 30 VDC or less, maximum 100 mA/ch or less, residual voltage 2.5 V or less ^{*5}
		Analog output (Ch2)	4–20 mA / 0–20 mA (switchable), load resistance 260 Ω or less ^{*5}
	Power voltage	20–30 VDC, ripple (P-P) 10% included; Class2/LPS ^{*5}	
	Protection circuit	Protection against reverse power connection, power supply surges, output short circuits, and output surges ^{*5}	
	Network compatibility	IO-Link ^{*6*5}	
Environmental resistance	Enclosure rating	IP65/IP67 (IEC60529)	
	Ambient temperature	–10 to +60°C –14 to +140°F (no freezing)	
	Relative humidity	35–85% RH (no condensation)	
	Vibration resistance	10–500 Hz; power spectral density: 0.816 G ² /Hz; X, Y and Z directions	
	Shock resistance	100 m/s ² (approx. 10 G), 16 ms pulses, 1000 times each for X, Y and Z directions	
Material	Display amplifier	PBT / PAR / POM / SUS303	
	Sensor head	Head: PPS / SUS303 / Sn; Pipe clamp unit: SUS304; Cable: fluororesin	
	Display amplifier mounting bracket	SUS304	
Weight		Approx. 80 g 2.82 oz	

^{*1} When pipe temperature is 100°C 212°F or more, the display amplifier cannot be mounted on the pipe clamp unit. Install the amplifier so it is insulated from the heat from the pipe.

*2 This is the guaranteed value from verification performed at KEYENCE inspection facilities. Measurement error may occur depending on the type and condition of the customer's pipes and fluid, the ambient temperature and other factors.

*3 This is the value for a constant 25°C 77°F environment, taking into account absolute error and repeatability.

*4 During standalone use, 220 mA or less including load.

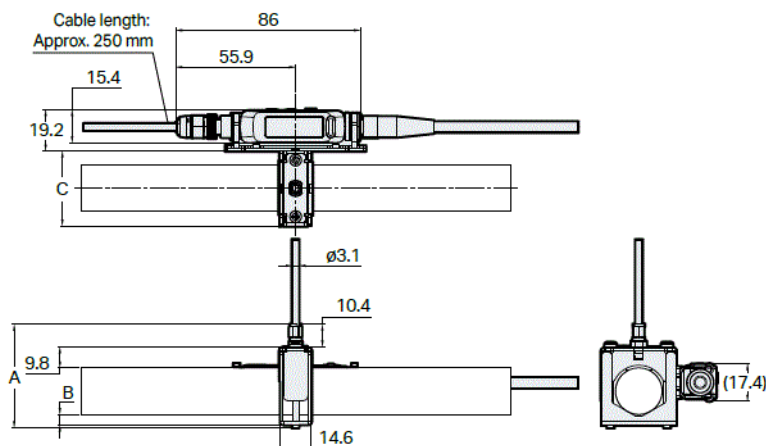
*5 When connecting to a FD-H Series/FI-1000 model, please follow the specifications of the display unit.

*6 Supports IO-Link specification v.1.1/COM2 (38.4 kbps). Setting files can be downloaded from the KEYENCE website (www.keyence.com). IO-Link is a trademark or registered trademark of PROFIBUS Nutzerorganisation e.V. (PNO).

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

FI-T8/T15



Model	A	B	C
FI-T8	40.4	Max. 4.7	26.5
FI-T15	48	Max. 5.4	34.9

Amplifier stabilisation bracket

