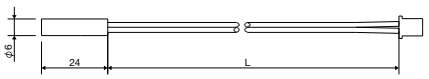
Equipped with a copper protection tube

EP1

Protection tube variants: ϕ4*L24, ϕ5*L24 and others

Unit: mm



Sensing part: copper
Wire: cross-linked PE parallel, PVC parallel, cross-linked PE double-insulated, PVC double-insulated

Using a glass-encapsulated thermistor element, low cost

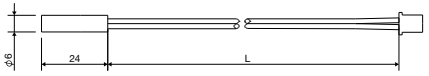
Cost is compared to other Shibaura sensors equipped with a copper protection tube

Features	⬢ A glass-encapsulated thermistor element is sealed in a copper protection tube ⬢ High reliability, applicable to a wide temperature range ⬢ Many variants of the protection tube are available
Applications	Air conditioner pipes including discharge pipes
Operating temperature	-30 to +120℃
Thermal time constant	τ ≒ 7 sec. (in stirred water)
Dissipation constant	δ ≒ 3.3mW/℃
Withstand voltage	1200VAC for 1 sec.
Insulation resistance	Min. 100MΩ at 500VDC
Resistance	Optional
B constant	Optional

KTM1

Protection tube variants: ϕ4*L24, ϕ5*L24 and others

Unit: mm



Sensing part: copper
Wire: cross-linked PE parallel, PVC parallel, cross-linked PE double-insulated, PVC double-insulated

Using a bare thermistor chip, low cost

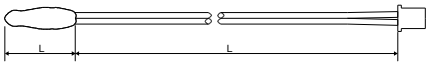
Cost is compared to other Shibaura sensors equipped with a copper protection tube

Features	⬢ A bare thermistor chip is sealed in a copper protection tube ⬢ Lower cost than using a glass-encapsulated thermistor element ⬢ Many variants of the protection tube are available
Applications	Air conditioner pipes
Operating temperature	-30 to +100℃
Thermal time constant	τ ≒ 7.5 sec. (in stirred water)
Dissipation constant	δ ≒ 5.5mW/℃
Withstand voltage	1200VAC for 1 sec.
Insulation resistance	Min. 100MΩ at 500VDC
Resistance	R25 = 10kΩ, R25 = 5kΩ Other options available
B constant	B25/50 = 4100K, B25/50 = 3950K Other options available

Resin dipped

EE1

Unit: mm



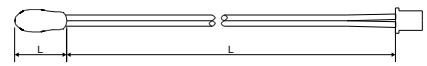
Sensing part: epoxy resin
Wire: cross-linked PE parallel, PVC parallel, cross-linked PE double-insulated, PVC double-insulated

Using a glass-encapsulated thermistor element

Features	⬢ A glass-encapsulated thermistor element is sealed with epoxy resin ⬢ Applicable to a wide temperature range
Applications	Air conditioners (room and outdoor air)
Operating temperature	-30 to +100℃
Thermal time constant	τ ≒ 5 sec. (in stirred water)
Dissipation constant	δ ≒ 2.2mW/℃
Withstand voltage	1200VAC for 1 sec.
Insulation resistance	Min. 100MΩ at 500VDC
Resistance	Optional
B constant	Optional

KT1

Unit: mm



Sensing part: epoxy resin
Wire: cross-linked PE parallel, PVC parallel, cross-linked PE double-insulated, PVC double-insulated

Using a bare thermistor chip

Features	⬢ A bare thermistor chip is sealed with epoxy resin ⬢ Lower cost than using a glass-encapsulated thermistor element
Applications	Air conditioners (room & outdoor air)
Operating temperature	-30 to +80℃
Thermal time constant	τ ≒ 5 sec. (in stirred water)
Dissipation constant	δ ≒ 5mW/℃
Withstand voltage	1200VAC for 1 sec.
Insulation resistance	Min. 100MΩ at 500VDC
Resistance	R25 = 10kΩ, R25 = 5kΩ Other options available
B constant	B25/50 = 4100K, B25/50 = 3950K Other options available