

Plug Sensor

Resistance Thermometer for screwing in



Description

This model of resistance thermometer is designed for rough industrial applications. Due to the low weight and the special mounting of the RTD this sensor is suitable for application where high vibrations can happen.

For rough environmental conditions the electrical contacts are gold plated. This ensures a high reliability of the measured temperature values.

tecsis offers models made of brass and of stainless steel (316TI) ex stock with the Junior Power Timer connector.

The standard sensors are platinum sensors with a nominal resistance of 100 or 1000 ohm (PT100 or PT1000). Also NTC's, KTY's or nickel sensors can be built-in. The standard plug connectors allow a quick installation of the sensor. The ingress protection, when the plug is connected, corresponds to IP66/67 (depends on the connector).

Customer specific solutions regarding the sensor or the geometry are available on request.

Typical applications are temperature measurements in engines, compressors or gearboxes.

Features

- O Suitable for applications with high vibrations
- O several electrical connectios
- O 2-wire technique
- O Ingress protection up to IP66/67, when connected
- O application specific sensor elements and geometries

Measuring Range

O -50°C ... +200°C

O -50°C ... +200°C (on request)

O -40°C ... +130°C (when using a NTC)

Applications

- O Compressors
- O Engines
- O Gearboxes
- O Refrigeration technology

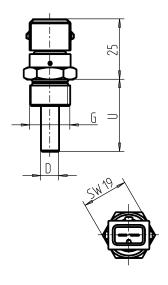
Model: TEC11

Technical data

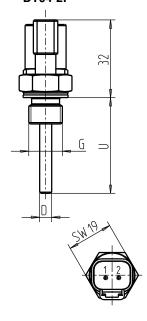
	Plug Sensor
Model	TEC11 -> 2-wire
Sensor	PT100 class B (alternative: class A or 1/3DIN)
	PT1000 class B (alternative: class A or 1/3DIN)
	Optional other sensors:
	NTC 5kOhm,
	NTC 10kOhm
	KTY,
	Ni1000,
D .:	etc.
Process connection	G1/4
	G3/8 G1/9
	G1/2
	M12x1,5 M14x1,5
	M14x1,5 DIN 3852-E
	1/4NPT
	Others on request
Stem diameter	7,5mm
Otern diameter	5mm
	Others on request (e.g.: 7,5mm tapered to 4mm)
Insertion length	28mm,
moortion longth	30mm.
	40mm,
	50mm.
	60mm
	Others on request
Material	Brass
	Stainless steel 1.4305 / Stainless steel 1.4571 (316 Ti)
	Other materials or coatings on request
Temperature range	PTC: -50°C + 200°C (-50°C +300°C on request)
	NTC: -40°C + 130°C
	KTY: depending on the sensor
Electrical connection	plug connector, AMP Junior Power Timer
	FAST-ON flat connector 4,8x0,8mm
	FAST-ON flat connector 6,3x0,8mm
	M12x1, circular connector
	Deutsch connector DT04
Protection class	Bayonet connector, DIN 72585 IP66/67 acc. to DIN EN 60529 / IEC 529 , when connected
Protection class	FAST-ON flat connector: depends on the mating connector
Response time	t _{0.5} : <2,5s (brass)
riesponse time	$t_{0.5}$: <3s (stainless steel)
Vibration resistance	Up to 10g, depends on the geometry, material and medium
Vibration resistance	op to rog, depends on the geometry, material and medium
Shock resistance	Up to 500g, depends on the geometry, material and medium
Maximum pressure	Up to 600 bar, depends on the geometry, material and medium
Ambient	-40°C + 150°C
temperature	-40°C + 130 °C (Bayonet connector, DIN 72585)
tomperature	-40°C + 100°C (M12x1, circular connector)
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Dimensions

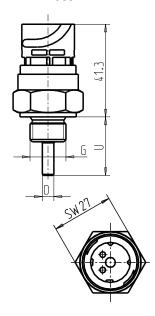
Plug connector, AMP Junior Power Timer



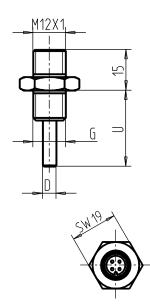
Deutsch connector DT04-2P



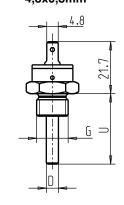
Bayonet connector DIN 72585



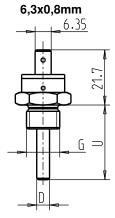
M12x1, circular connector



FAST-ON flat connector 4,8x0,8mm



FAST-ON flat connector



Accessory: conjunction box, 6-parts EZE53X060001 for Junior Power Timer Connector







Subject to technical modifications