



Datasheet for

Temperature sensor SITRANS TS500 with welded thermowell 316L

Ordering data:

7MC75121JA140HA2

T30+Y01+E00 {Y01: 0 ... 100 °C}

General

Manufacturer	Siemens
Supplier	Siemens
Product designation	Temperature sensor
Brand name	SITRANS TS500
Type designation	Temperature sensor SITRANS TS500 with welded thermowell 316L
Net weight	1,788 kg

Mode of operation and application

Measuring principle	Temperature resistance measurement
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Input

Measurand	Temperature
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Measuring range

Measuring range (maximum)	100 °C
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Sensor type

Resistance thermometer

Connection technology	2-wire system, 3-wire system, 4-wire system
Number of sensor resistors	1

Accuracy

Accuracy class for resistance thermometers according to IEC 60751	tolerance class A
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Rated conditions

Environmental conditions

Ambient temperature during storage	-40 °C...+85 °C
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Degree of protection

IP rating	IP66, IP68
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Design

Mechanical design

Design of the housing	compact version, transmitter integrated
Model of the thermowell	2N
Model of the connecting head	AH0
Design of the connection head	with screw cap, with window, for high loading

Process connection

Design	Thread adapter
Nominal size	1/2" NPT

Material

Miscellaneous

Material of the connecting head	aluminium
Material of the thermowell	stainless steel
Material number of the thermowell according to DIN EN 10027-2	1.4404
Material number of the thermowell according to AISI	316L

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Dimensions

Connecting height of the connection head	41 mm
Length of the extension	30 mm
Outer diameter of the protective tube	9 mm
Mounting Length of protective tubes	285 mm
Length of the temperature-responsive part	50 mm

The information provided in this data sheet contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.