



SITRANS TS200 Temperature sensor (Ø 6mm) Pt100 Cl. A with optimized response time , sensor length 500mm. Inclusive IO-Link / 4...20mA output, stainless steel housing 316L

manufacturer's name	Siemens
product brand name	SITRANS TS200
product designation	Temperature sensor
supplier name	Siemens
Slogan 1	SITRANS TS - Precision in temperature measurement
Short text / max. 80 Characters	SITRANS TS200 IO, 6/500mm, Pt100, 316L
hardware version	4
firmware version	01.02.01
product feature / of the firmware version / can be updated	Yes
design, dimensions and weights	
length / of the enclosure	70 mm
outer diameter / of the enclosure	18 mm
weight / without packaging	0.026 kg
length / of packaging	110 mm
width / of packaging	30 mm
height / of packaging	30 mm
weight / with packaging	0.039 kg
physical measuring principle	temperature determination by resistance measurement
electrical data / input	
measured variable	Temperature
unit / of the measurand	°C
temperature measuring range / at input	-50 ... +350
type of connection technology / at input / for resistance thermometer	4-wire system
design of the sensor / at input / is supported / according to EN 60751	Pt100
number of measuring resistors	1
delayed display (T90) / at electronic damping time constant	0.1 ... 3.7 s
sensor current	0.0001 A
response time / T63	13 s
electrical data / output	
number of analog outputs	1
signal range / at analog output	4 ... 20 mA
diagnostics function / at analog output / sensor fault / according to NAMUR NE43	Yes
design of the digital output	IO-Link, transistor (NPN), transistor (PNP)
number of digital outputs	1
connector type	M12 plug, 4-pole, A-coded
product feature / connection plug according to IEC 61076-2-101	Yes
accuracy class / for resistance thermometers / according to IEC	Accuracy class A

60751	
type of connection technology	2- and 3-wire technology
type of voltage	DC
supply voltage / at DC / 4 mA ... 20 mA	8 ... 32 V
supply voltage / at DC / IO-Link / switching output	18 ... 30 V
consumed active power	
• maximum	0.8 W
• IO-Link	0.65 W
• 4 mA ... 20 mA	0.55 W
• switching output	0.8 W
product function	
• reverse polarity protection	Yes
• galvanic isolation between in and outputs	No
• localization via LED	Yes
type of light source	RGB-LED, multicolor
IO-Link	
protocol / between master and IO-Link device / Version 1.1	Yes
symbol data transfer rate / to COM2	38.4 kBd
cycle time / minimum	8.4 ms
data volume / of process data / per module input	4 byte
type of IO-Link port / A	Yes
switching output	
active current / maximum	0.15 A
product function / at the digital outputs / parameterizable OFF delay	Yes
ambient conditions	
ambient temperature / during operation	-40 ... +80 °C
relative humidity / during operation	0 ... 100 %
ambient temperature / during storage	-40 ... +80 °C
protection class IP / of the enclosure	IP67
standard / for EMC	EN 61326-1
mechanical data	
design of the housing	compact version, transmitter integrated
material / of the sensor sheath	Stainless steel
material number / of the sensor sheath	
• according to EN 10027-2	1.4404
• according to AISI	316L
Material / of the connection head	Stainless steel
installation length	500 mm
outer diameter / of the temperature measurement insert	6 mm
vibration resistance / according to IEC 60068-2-6	10 g
factory setting	
design of the sensor / in factory setting / according to EN 60751	Pt100
type of connection technology / in factory setting / for resistance thermometer	4-wire system
temperature measuring range / in factory setting	0 ... 150 °C
environmental footprint	
Environmental Product Declaration	Yes
global warming potential	
global warming potential [CO2 eq]	
• total	17.4 kg
• during manufacturing	0.85 kg
• during operation	16.5 kg
• after end of life	0.002 kg

last modified:

7/17/2026 