

tip300

wireless temperature sensors



Areas of application

- rotor temperature of electric motors and generators
- electronic manufacturing
- rotating test benches
- industrial ovens
- vacuum systems



CONTROL THE HEAT

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promicron
wireless solutions

wireless passive temperature measurement

TiP300 temperature sensors are passive, wireless probes for various monitoring applications in industrial environments

special features

- temperature range up to 300°
- up to 6 sensors at the same time
- wireless transmission over few meters
- no battery and no energy harvesting
- radio signal at 2.4GHz (ISM-Band)
- integrated revolution counter [rpm]

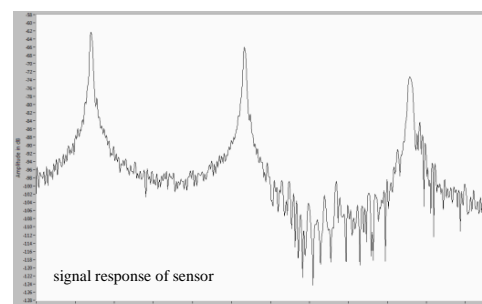
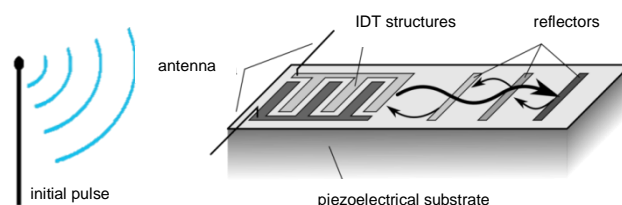
NEW!

applications

- condition monitoring
- traceability & documentation
- automatic control
- optimization of process settings

technology


surface acoustic waves





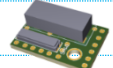


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wireless temperature sensors

Sensor types

T039	
SMD L	
SMD S	


Probes**


T039 monopole	
T039 slot	
SMD surface	
SMD cavity	
plug-in probe	

Dimensions [mm]	T _{max} [°C]
9,3x9,3x2,9	300
14,3x2,6x1,1	300
9,3x2,6x1,1	300

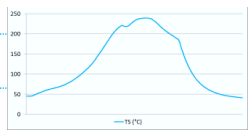
Dimensions [mm]	Number of Sensors
10x10x34	1-3
90x29x5	1-3
18x12x6	1-6
18x12x5	1-6
Ø3,5, variable length	1-6

Reader specifications

radio frequency:	
sampling rate*	
output power	
data interface**	
antenna ports	
radio conformity	

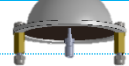

2,45	GHz
up to 18	Hz
10	mW
Modbus TCP; RS232	
4 x SMA	
EN 300 440-1 V1.6.1	
EN 300 440-2 V1.4.1	

Temperatur measurement specifications

temperature range	
accuracy (100K target range**)	
response behavior t ₀₅	
temperature resolution	
temperature ramps	
radio distance/range	

-40 up to +300	°C
±1	°C
<1 (water)	s
0,02	K
±20	K/s
1-4	m

Special antennas 2.4GHz

f-antenna pm1	
monopole HTV	

Specifications
directional antenna, T<165°C
T<290°C, p>1mbar
(use seal fittings LetLok or similar)

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*) subject to alterations
**) customised