

Specification

1-Channel Transmitter dt1001T-S

Parameter		Type / Value 1	Dim	Comment
operating temperature range		-40 to +125	°C	
compensated temperature range		+25 to +125		
mechanical dimensions				see appendix operating instructions
weight				see system specification
Transmitter supply				
type		AC		
	min.	14	Vpp	
	opt. nax.	17 20		
current consumption	iiax.	20 ±2	mA	with optimum supply, without sensor, with 50 Ω
carrent consumption		20 12	line.	antenna
Sensor data				
sensor type		S/G full bridge		
sensor supply		constant voltage		
	J_{gage}	5000	mV	
sensor resistance	R_{gage}	≥350	Ω	
Signal input				
input voltage range	U_{in}	± 1 bis ± 50	mV	without overloading the measuring channel
	n,limit	-2000 to +2000	mV	without damage of the transmitter
input impedance	R_i	>20	ΜΩ	
coupling		DC		
sensor connected to machine ground		not allowed		
open sensor detection		no		
Signal conditioning				
-) 0 -	V_{min}	200 10000		U _{out} (receiver) / U _{in} (transmitter)
system constant measuring range	C_{sys}	32640	kΩ	calculated for $U_{out} = \pm 10000 \text{ mV}$
RF signal				
RF-band				see system specification
output impedance		50	Ω	
Subcarrier				
frequency		100	kHz	
deviation			%	
Accuracy ²				
zero drift versus transmitter temperature		typ. 1.2; max. 2	% f.s.	f.s.: full scale
sensitivity drift versus transmitter temperature		typ. 0.5; max. 1	%	
signal bandwidth	o dB	0 to 10000	Hz	

 2 Specification for compensated temperature range from 25 °C to 125 °C.

In interest of constant product improvement, we reserve the right to change specifications without notice.

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¹ All specifications are measured at room temperature unless otherwise stated.