

Specification

Multichannel Time Multiplex Transmitter dt3008T-T Flatpack

Parameter	Type / Value ¹	Dim	Comment
transmitter temperature range	-15 +125	°C	
compensated temperature range	-25 +125	°C	
dimensions			see appendix operating instructions
weight			see system specification
Transmitter supply			
type	AC		
supply voltage	14 17 20	Vpp	see also specification "U1 signal"
current consumption	21 ±2	mA	
Sensor data			
number of measuring channels	8		
sensor type	K		
Signal input (measuring channels)			
measuring range			see system specification
permissible overvoltage ² U _{in,limit}	60	V	without damage of the transmitter
input impedance R _i	10	Ω M	
coupling	DC		
sensor electrically connected to machine ground	allowed		
open sensor detection	yes		
Control signals			
U1 signal U1 _{min.}	6.0 +0.2	V DC	amplitude equivalent to supply voltage
U1 _{opt.} U1 _{max.}	7.5 ±0.5		
Ref signal	9.0 -0.2		Amplitude equivalent to transmitter temperature
Cal signal	90 ±2	%f.s.	full-scale corresponds to Uin,max at the transmitter,
car signar	90 ±2	701.3.	respective Uout,max / Dout,max at the receiver; Uout,max = 10 V; Dout,max = 29760 digits
RF Signal			
RF band			see system specification
output impedance	50	Ω	
Subcarrier			
frequency	165	kHz	
deviation	±10	%	

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

Telemetrie Elektronik GmbH Berliner Allee 42 D-30855 Langenhagen Phone: +49 (0) 511/97 83 96-0 Fax: +49 (0) 511/97 83 96-16 E-mail: info@datatel-telemetry.de All rights reserved. Duplication, editing or translation beyond the scope defined by copyright laws is prohibited without written advance permission.

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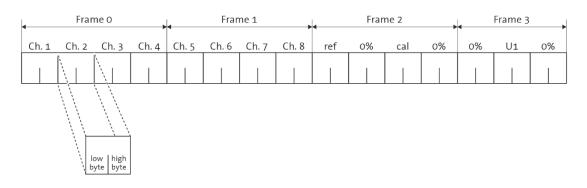
¹ All specifications are measured at room temperature unless otherwise stated.

² Up to 125 °C, with contact on both sides of the transmitter housing (large areas), with a metallic carrier mechanism.

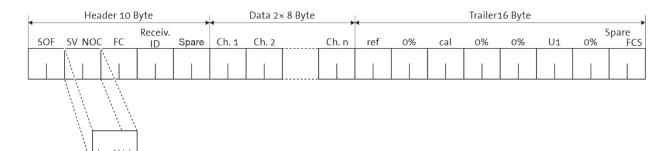


Accuracy ³			
junction error via transmitter temperature	≤ 2	°C	after calibration of the measuring channels
gain error over transmitter temperature	≤ 3	°C	
Ref signal	≤ 5	°C	without calibration of the "Ref" control signal
sampling rate per measuring channel	150	Hz	
variation of the sampling rate	±10	%	

CAN data frame 4



RS232 data frame⁵



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 $^{^3}$ Specification for the compensated temperature range of 25 ... 125 $^\circ\text{C}$ 4 For the meanings of the abbreviations, see the "Operation" chapter

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