SIEMENS

Data sheet

6ES7134-7TD00-0AB0



SIMATIC DP, electronic module for ET200iSP, 4 AI HART, 2DMU, for connecting HART 2-wire transmitters, supported HART protocol Version 6.0, Ex ib (ia Ga) IIC T4 Gb, Ex ib [ia IIIC Da] IIC T4 Gb, Ex ib [ia] I Mb

Figure similar

Input current	
Current consumption, typ.	280 mA
from supply voltage L+, max.	320 mA
output voltage / header	
supply voltage of the transmitters / header	
short-circuit proof	Yes
 Supply current, max. 	23 mA; per channel
Power loss	
Power loss, typ.	2.7 W
Analog inputs	
Number of analog inputs	4
permissible input current for current input (destruction limit), max.	90 mA
Cycle time (all channels) max.	120 ms; 30 ms basic conversion time x4 channels with 60 Hz, 50 Hz interference frequency suppression
Technical unit for temperature measurement adjustable	Yes
Input ranges (rated values), currents	
• 4 mA to 20 mA	Yes
Cable length	
shielded, max.	500 m
Analog value generation for the inputs	
Measurement principle	integrating (Sigma-Delta)
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	13 bit
 Integration time, parameterizable 	No
 Interference voltage suppression for interference frequency f1 in Hz 	50 / 60 Hz
Smoothing of measured values	
 parameterizable 	Yes; in 4 stages
Step: None	Yes; 1x cycle time
• Step: low	Yes; 4x cycle time
Step: Medium	Yes; 32x cycle time
Step: High	Yes; 64x cycle time
Encoder	
Connection of signal encoders	
 for current measurement as 2-wire transducer 	Yes
— Burden of 2-wire transmitter, max.	750 Ω
Errors/accuracies	

Linearity error (relative to input range), (+/-) Crosstalik between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Current, relative to input range, (+/-) Operational error limit in overall temperature range • Current, relative to input range, (+/-) O.15 % Basic error limit (operational limit at 25 °C) • Current, relative to input range, (+/-) O.1 % Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency • Series mode interference (peak value of input range), min. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm Olagnoses • Diagnostic information readable • Wire-break • Wire-break • Wire-break • Short-circuit Potential separation Potential separation analog inputs • between the channels • between the channels and backplane bus Standards, approvals, certificates CE mark Highest safety class achievable in safety mode • Performance level according to ISO 13849-1 • SIL acc. to IEC 61508 Dimensions Weight, approx.			
Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Current, relative to input range, (+/-) Ocurrent, relative to input range, (+/-) • Current, relative to input range, (+/-) • Series mode interference (peak value of input range), min. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm • Limit value alarm • Diagnoses • Diagnoses • Diagnoses • Diagnoses • Diagnoses • Diagnoses • Diagnostic information readable • Wire-break • Wire-break • Wire-break • Short-circuit Ves • Sort-circuit • Yes • Sort-circuit • Series • Sort-circuit • Series • Sort-circuit • Series • Serie	Linearity error (relative to input range), (+/-)	0.015 %	
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Current, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Current, relative to input range, (+/-) O.1 % Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency • Series mode interference (peak value of interference (read val	Temperature error (relative to input range), (+/-)	0.005 %/K	
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Current, relative to input range. (+/-) Basic error limit (operational limit at 25 °C) Current, relative to input range. (+/-) Current, relative to input range. (+/-) Current, relative to input range. (+/-) Interference voitage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency Series mode interference (peak value of input range), min. Interrupts/diagnostics/status information Alarms Diagnostic alarm Yes; Parameterizable Limit value alarm Yes; Parameterizable Limit value alarm Yes Polagnostic information readable Yes Wire-break Short-circuit Yes Croup error SF (red) Potential separation Potential separation Potential separation Potential separation analog inputs between the channels between the channels and backplane bus Yes Standards, approvals, certificates CE mark Highest safety class achievable in safety mode Performance level according to ISO 13849-1 SIL acc. to IEC 61508 No Dimensions Width 30 mm Height Depth 136.5 mm Weights		0.01 %	
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● SIL acc. to IEC 61508 Dimensions	Highest safety class achievable in safety mode		
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Depth 136.5 mm Weights	Height	129 mm	
Weights		136.5 mm	
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last modified:

12/18/2020 🗗