

SIEMENS

Product data sheet

6ES7134-7TD00-0AB0


SIMATIC DP,
ELECT. SUBMODULE FOR ET200ISP,
4 AI HART, 2DMU,
FOR CONNECTION OF HART 2-WIRE
TRANSDUCER

Input current	
from supply voltage L+, max.	320 mA
Output voltage	
Power supply to the transmitters	
short-circuit proof	Yes
Supply current, max.	23 mA ; per channel
Power losses	
Power loss, typ.	2.7 W
Analog inputs	
Number of analog inputs	4
Cycle time (all channels) max.	120 ms ; 30 ms basic conversion time x 4 channels with 60 Hz, 50 Hz interference frequency suppression
permissible input current for current input (destruction limit), max.	90 mA
Technical unit for temperature measurement adjustable	Yes

Input ranges	
Voltage	No
Current	Yes
Thermocouple	No
Resistance thermometer	No
Resistance	No
Input ranges (rated values), currents	
4 to 20 mA	Yes
Cable length	
Cable length, shielded, max.	500 m
Analog value creation	
Measurement principle	integrating (Sigma-Delta)
Integrations 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 ; 1 x cycle time
Step: low	Yes ; 4 x cycle time
Step: Medium	Yes ; 32 x cycle time
Step: High	Yes ; 64 x 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 area)	+/- 0.015 %
Temperature error (relative to input area)	+/- 0.005 %/K
Crosstalk between the inputs, min.	-50 dB
Repeat accuracy in settled status at 25 °C (relative to input area)	+/- 0.01 %

Operational limit in overall temperature range	
Current, relative to input area	+/- 0.15 %
Basic error limit (operational limit at 25 °C)	
Current, relative to input area	+/- 0.1 %
Interference voltage suppression for $f = n \times (f_l \pm 1\%)$, f_l = interference frequency	
Series mode interference (peak value of interference < rated value of input range), min.	70 dB
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes ; Parameterizable
Limit value alarm	Yes ; Parameterizable
Diagnostic messages	
Diagnostic information readable	Yes
Wire break	Yes
Short circuit	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Galvanic isolation	
Galvanic isolation analog inputs	
between the channels	No
between the channels and the backplane bus	Yes
Standards, approvals, certificates	
CE mark	Yes
Use in hazardous areas	
Type of protection acc. to EN 50020 (CENELEC)	II2 G (1) GD Ex ib[ia] IIC T4 and I M2 Ex ib[ia] I
Type of protection acc. to KEMA	04 ATEX 1244
Dimensions	
Width	30 mm
Height	129 mm
Depth	136.5 mm
Weight	
Weight, approx.	230 g
Status	Jul 17, 2012