SIEMENS

## Data sheet 6ES7134-7TD50-0AB0



Figure similar

SIMATIC DP, electronic module for ET200iSP, 4 AI HART, 4DMU, for connecting HART 4-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

| | |
|---|---|
| **General information** | |
| Product type designation | 4AI I 4WIRE HART |
| **Input current** | |
| Current consumption, typ. | 27 mA |
| from supply voltage L+, max. | 30 mA |
| **Power loss** | |
| Power loss, typ. | 0.4 W |
| **Analog inputs** | |
| Number of analog inputs | 4 |
| permissible input current for current input (destruction limit), max. | 50 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 |
| — Input resistance (4 mA to 20 mA) | 295 Ω |
| 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. | 12 bit; + sign |
| ● Integration time, parameterizable | Yes |
| ● Basic conversion time, including integration time (ms) | 30 ms |
| ● 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 4-wire transducer | Yes |
| **Errors/accuracies** | |
| Linearity error (relative to input range), (+/-) | 0.015 % |
| Temperature error (relative to input range), (+/-) | 0.005 %/K |
| Crosstalk between the inputs, min. | -50 dB |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) | 0.01 % |
| Operational error limit in overall temperature range | |
| ● Current, relative to input range, (+/-) | 0.15 % |
| Basic error limit (operational limit at 25 °C) | |
| ● Current, relative to input range, (+/-) | 0.1 % |
| Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = 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 |
| Diagnoses | |
| ● Diagnostic information readable | Yes |
| ● Wire-break | Yes |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| **Potential separation** | |
| Potential separation analog inputs | |
| ● between the channels | No |
| ● between the channels and backplane bus | Yes |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| Highest safety class achievable in safety mode | |
| ● Performance level according to ISO 13849-1 | none |
| ● SIL acc. to IEC 61508 | No |
| Use in hazardous areas | |
| ● ATEX marking | II2 G (1) GD Ex ib[ia] IIC T4 and I M2 Ex ib[ia] I |
| ● ATEX certificate | 04 ATEX 1245 |
| **Dimensions** | |
| Width | 30 mm |
| Height | 129 mm |
| Depth | 136.5 mm |
| **Weights** | |
| Weight, approx. | 230 g |

**last modified:** 9/6/2023


Subject to change without notice
© Copyright Siemens