SIEMENS

## Data sheet 6ES7134-6TD00-0CA1



Figure similar

SIMATIC ET 200SP, analog HART input module, AI 4XI 2-wire HART High Feature suitable for BU type A0, A1, color code CC03, channel diagnostics, 16-bit, +/-0.3%,

| | |
|---|---|
| **General information** | |
| Product type designation | AI 4xI 2-wire HART |
| Firmware version | V1.0 |
| ● FW update possible | Yes |
| usable BaseUnits | BU type A0, A1 |
| Color code for module-specific color-coded label | CC03 |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M3 |
| ● Isochronous mode | No |
| Engineering with | |
| ● STEP 7 TIA Portal configurable/integrated from version | V13 SP1 |
| ● STEP 7 configurable/integrated from version | V5.5 SP4 and higher |
| ● PCS 7 configurable/integrated from version | V8.1 SP1 |
| ● PROFIBUS from GSD version/GSD revision | GSD Revision 5 |
| ● PROFINET from GSD version/GSD revision | GSDML V2.3 |
| Operating mode | |
| ● Oversampling | No |
| ● MSI | No |
| **CiR - Configuration in RUN** | |
| Reparameterization possible in RUN | Yes |
| Calibration possible in RUN | No |
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes |
| **Input current** | |
| Current consumption, max. | 25 mA; without sensor supply |
| **Encoder supply** | |
| 24 V encoder supply | |
| ● 24 V | Yes |
| ● Short-circuit protection | Yes |
| ● Output current, max. | 20 mA; max. 50 mA per channel for a duration < 10 s |
| **Power loss** | |
| Power loss, typ. | 0.65 W; without sensor supply |
| **Address area** | |
| Address space per module | |
| ● Address space per module, max. | 8 byte; + 1 byte for QI information |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| ● Address space per module with HART, max. | 28 byte; + 1 byte for QI information |
| **Hardware configuration** | |
| Automatic encoding | Yes |
| ● Mechanical coding element | Yes |
| ● Type of mechanical coding element | Type A |
| **Analog inputs** | |
| Number of analog inputs | 4; Differential inputs |
| ● For current measurement | 4 |
| permissible input current for current input (destruction limit), max. | 50 mA |
| Input ranges (rated values), currents | |
| ● 0 to 20 mA | No |
| ● -20 mA to +20 mA | No |
| ● 4 mA to 20 mA | Yes; 15 bit + sign |
| — Input resistance (4 mA to 20 mA) | 280 Ω; + approx. 0.35 V diode forward voltage |
| Cable length | |
| ● shielded, max. | 800 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. | 16 bit |
| ● Integration time, parameterizable | Yes; channel by channel |
| ● Interference voltage suppression for interference frequency f1 in Hz | 10 / 50 / 60 Hz |
| Smoothing of measured values | |
| ● Number of smoothing levels | 4; None; 4/8/16 times |
| ● parameterizable | Yes |
| **Encoder** | |
| Connection of signal encoders | |
| ● for voltage measurement | No |
| ● for current measurement as 2-wire transducer | Yes |
| **Errors/accuracies** | |
| Linearity error (relative to input range), (+/-) | 0.01 % |
| Temperature error (relative to input range), (+/-) | 0.005 %/K |
| Crosstalk between the inputs, min. | 60 dB |
| Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) | 0.05 % |
| Operational error limit in overall temperature range | |
| ● Current, relative to input range, (+/-) | 0.5 % |
| Basic error limit (operational limit at 25 °C) | |
| ● Current, relative to input range, (+/-) | 0.3 % |
| 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. | 60 dB |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | Yes |
| Alarms | |
| ● Diagnostic alarm | Yes |
| ● Limit value alarm | Yes |
| Diagnoses | |
| ● Monitoring the supply voltage | Yes |
| ● Wire break | Yes; channel by channel |
| ● Short-circuit | Yes; Channel-by-channel, short-circuit of the encoder supply to ground or of an input to the encoder supply |
| ● Group error | Yes |
| ● Overflow/Underflow | Yes; channel by channel |
| Diagnostics indication LED | |
| ● Monitoring of the supply voltage (PWR-LED) | Yes; green PWR LED |
| ● Channel status display | Yes; green LED |
| ● for channel diagnostics | Yes; red LED |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| ● for module diagnostics | Yes; green/red DIAG LED |
| **Potential separation** | |
| Potential separation channels | |
| ● between the channels | No |
| ● between the channels and backplane bus | Yes |
| ● between the channels and the power supply of the electronics | No |
| **Isolation** | |
| Isolation tested with | 707 V DC (type test) |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● horizontal installation, min. | -30 °C |
| ● horizontal installation, max. | 60 °C |
| ● vertical installation, min. | -30 °C |
| ● vertical installation, max. | 50 °C |
| Altitude during operation relating to sea level | |
| ● Installation altitude above sea level, max. | 5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200SP system manual |
| **Dimensions** | |
| Width | 15 mm |
| Height | 73 mm |
| Depth | 58 mm |
| **Weights** | |
| Weight, approx. | 31 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-26-01 |
| eClass | 14 | 27-24-26-01 |
| eClass | 12 | 27-24-26-01 |
| eClass | 9.1 | 27-24-26-01 |
| eClass | 9 | 27-24-26-01 |
| eClass | 8 | 27-24-26-01 |
| eClass | 7.1 | 27-24-26-01 |
| eClass | 6 | 27-24-26-01 |
| ETIM | 10 | EC001596 |
| ETIM | 9 | EC001596 |
| ETIM | 8 | EC001596 |
| ETIM | 7 | EC001596 |
| IDEA | 4 | 3562 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

**General Product Approval**

Miscellaneous | Manufacturer Declaration | CE EG-Konf. | UKCA | UL | Metrological Approval

**General Product Approval** | **For use in hazardous locations**

RCM | China RoHS | Manufacturer Declaration | Type Examination Certificate | FM | CCC

**For use in hazardous locations** | **Maritime application**


© Copyright Siemens

CCC-Ex

| Maritime application | Environment |
| --- | --- |

CCS (China Classification Society)

**last modified:** 10/23/2025


Subject to change without notice
© Copyright Siemens