SIEMENS

## Data sheet 6ES7134-4GD00-0AB0

SIMATIC DP, Electronics module ET 200S 4AI standard I-2-wire, 4-20 mA; 13 bit, 15 mm width, for 2-wire transducer Cycle time 40 ms/module with SF LED (group fault)


| | |
|---|---|
| **Supply voltage** | |
| Load voltage L+ | |
| • Rated value (DC) | 24 V; From power module |
| • Reverse polarity protection | Yes |
| **Input current** | |
| from load voltage L+ (without load), max. | 125 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |
| **Output voltage** | |
| Power supply to the transmitters | |
| • present | Yes |
| • short-circuit proof | Yes; approx. 200 mA for module |
| **Power loss** | |
| Power loss, typ. | 0.6 W |
| **Address area** | |
| Address space per module | |
| • Address space per module, max. | 8 byte |
| **Analog inputs** | |

| | |
|---|---|
| Number of analog inputs | 4 |
| permissible input current for current input (destruction limit), max. | 30 mA; limited electronically |
| Cycle time (all channels) max. | 40 ms; 33 to 40 ms |
| Input ranges (rated values), currents | |
| • 4 mA to 20 mA | Yes; Into 25 Ohm |
| Cable length | |
| • shielded, max. | 200 m |

| Analog value generation for the inputs | |
|---|---|
| Measurement principle | integrating |
| Integration and conversion time/resolution per channel | |
| • Resolution with overrange (bit including sign), max. | 13 bit; 4 to 20 mA: 13 bit |
| • Integration time, parameterizable | Yes |
| • Integration time (ms) | 16,67 / 20 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; 16x cycle time |
| • Step: High | Yes; 32x cycle time |

| Encoder | |
|---|---|
| Connection of signal encoders | |
| • for current measurement as 2-wire transducer | |
| — Burden of 2-wire transmitter, max. | 750 Ω |

| Errors/accuracies | |
|---|---|
| Linearity error (relative to input range), (+/-) | 0.01 % |
| Temperature error (relative to input range), (+/-) | 0.003 %/K |
| Crosstalk between the inputs, min. | -50 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, (+/-) | 0.4 % |
| 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. | 70 dB |

| Isochronous mode |
|---|

| | |
|---|---|
| Isochronous operation (application synchronized up to terminal) | No |
| **Interrupts/diagnostics/status information** | |
| Diagnostic messages | |
| • Wire-break | Yes; Measuring range 1 to 5 V only |
| • Group error | Yes |
| • Overflow/underflow | Yes |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| **Parameter** | |
| Remark | 7 byte |
| Diagnostics wire break | 1 |
| Measurement type/range | 1 |
| Group diagnostics | 1 |
| Overflow/underflow | 1 |
| **Potential separation** | |
| Potential separation analog inputs | |
| • between the channels | No |
| • between the channels and backplane bus | Yes |
| • Between the channels and load voltage L+ | No |
| **Isolation** | |
| Isolation tested with | 500 V DC |
| **Dimensions** | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| **Weights** | |
| Weight, approx. | 40 g |

**last modified:** 05/09/2019