




SIMATIC DP, Electronics module f. ET200S, 2AI Standard I-4DMU 15 mm width, +/-20mA; 13 bit+sign 4.. 20mA; 12-bit for 4-wire transmitter Cycle time 65 ms/channel with SF LED (group fault)

| General information | |
|---|--|
| Product function | |
| • Isochronous mode | No |
| Supply voltage | |
| Load voltage L+ | |
| • Rated value (DC) | 24 V; From power module |
| Input current | |
| from load voltage L+ (without load), max. | 30 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |
| Power loss | |
| Power loss, typ. | 0.6 W |
| Address area | |
| Address space per module | |
| • Address space per module, max. | 4 byte |
| Analog inputs | |
| Number of analog inputs | 2 |
| permissible input current for current input (destruction limit), max. | 40 mA |
| Cycle time (all channels) max. | Number of active channels per module x basic conversion time |
| Input ranges (rated values), currents | |
| • -20 mA to +20 mA | Yes |
| • 4 mA to 20 mA | Yes |
| 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. | 14 bit; ±20 mA: 14 bit, 4 to 20 mA: 13 bit |
| • Conversion time (per channel) | 65 ms |
| Smoothing of measured values | |
| • parameterizable | Yes; In four stages by means of digital filtering |
| • Step: None | Yes; 1x cycle time |
| • Step: low | Yes; 4x cycle time |
| • Step: Medium | Yes; 32x cycle time |
| • Step: High | Yes; 64x cycle time |
| Errors/accuracies | |
| Operational error limit in overall temperature range | |

| | |
|---|--|
| • Current, relative to input range, (+/-) | 0.6 % |
| Basic error limit (operational limit at 25 °C) | |
| • Current, relative to input range, (+/-) | 0.4 % |
| Interrupts/diagnostics/status information | |
| Diagnoses | |
| • Wire-break | Yes; Measuring range 4 to 20 mA only |
| • Group error | Yes |
| • Overflow/underflow | Yes |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| Parameter | |
| Remark | 4 byte |
| Diagnostics wire break | Disable / enable (only in measuring range 4 to 20 mA) |
| Group diagnostics | Disable / enable |
| Overflow/underflow | Disable / enable |
| 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: | 2/9/2021  |