




Figure similar

SIMATIC DP, Electronics module ET 200S: 2AI High Speed I-4WIRE 4-20 mA; 16 bit, 15 mm width, for 4-wire transmitter, Cycle time of module: 0.1 ms, with SF LED (group fault)

| General information | |
|--|-------------------------------------|
| Product function | |
| <ul style="list-style-type: none"> • Isochronous mode | Yes |
| Supply voltage | |
| Load voltage L+ | |
| <ul style="list-style-type: none"> • Rated value (DC) • Short-circuit protection • Reverse polarity protection | 24 V Yes Yes |
| Input current | |
| from load voltage L+ (without load), max. | 80 mA; without load |
| from backplane bus 3.3 V DC, max. | 10 mA |
| output voltage / header | |
| supply voltage of the transmitters / header | |
| <ul style="list-style-type: none"> • product function / supply voltage for transmitters • product feature / of the supply voltage for transmitters / short-circuit proof | Yes Yes |
| Encoder supply | |
| Number of outputs | 2 |
| Type of output voltage | 24 V |
| Short-circuit protection | Yes |
| Output current | |
| <ul style="list-style-type: none"> • Rated value • permissible range, lower limit • permissible range, upper limit | 80 mA; Per channel 0 mA 90 mA |
| Power loss | |
| Power loss, typ. | 1.9 W |
| Address area | |
| Address space per module | |
| <ul style="list-style-type: none"> • Address space per module, max. | 4 byte |
| Analog inputs | |
| Number of analog inputs | 2 |
| permissible input current for current input (destruction limit), max. | 30 mA |
| Cycle time (all channels) max. | 250 μs |
| Input ranges (rated values), currents | |
| <ul style="list-style-type: none"> • 0 to 20 mA — Input resistance (0 to 20 mA) • -20 mA to +20 mA | Yes 106 Ω Yes |

| | |
|---|--|
| • 4 mA to 20 mA | Yes |
| Cable length | |
| • shielded, max. | 200 m |
| Analog value generation for the inputs | |
| Integration and conversion time/resolution per channel | |
| • Resolution with overrange (bit including sign), max. | 16 bit |
| Smoothing of measured values | |
| • parameterizable | Yes |
| • 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 | No |
| Errors/accuracies | |
| Operational error limit in overall temperature range | |
| • Current, relative to input range, (+/-) | 0.3 % |
| Basic error limit (operational limit at 25 °C) | |
| • Current, relative to input range, (+/-) | 0.2 % |
| Interrupts/diagnostics/status information | |
| Alarms | |
| • Hardware interrupt | Yes |
| Diagnoses | |
| • Diagnostic information readable | Yes |
| • 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 | |
| Diagnostics wire break | at 4 to 20 mA |
| Group diagnostics | Yes |
| Overflow/underflow | Yes |
| Potential separation | |
| Potential separation analog inputs | |
| • between the channels | No |
| • between the channels and backplane bus | Yes |
| • Between the channels and load voltage L+ | Yes |
| Dimensions | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| Weights | |
| Weight, approx. | 45 g |
| last modified: | 4/1/2022  |