



\*\*\* Spare part \*\*\* SIMATIC DP, Electronics module f. ET200S, 2 AO U, 15 mm width, +/-10V; 13 bit+sign, 1..5 V; 12 bit, Cycle time less than 1 ms 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  |
| • Reverse polarity protection                                       | Yes  |
| Input current   |  |
| from load voltage L+ (without load), max.                           | 130 mA   |
| from backplane bus 3.3 V DC, max.                                   | 10 mA  |
| Power loss  |  |
| Power loss, max.  | 2 W  |
| Address area  |  |
| Address space per module  |  |
| • Address space per module, max.                                    | 4 byte   |
| Analog outputs  |  |
| Number of analog outputs  | 2  |
| Voltage output, short-circuit protection                            | Yes  |
| Voltage output, short-circuit current, max.                         | 25 mA  |
| Cycle time (all channels) max.                                      | 1.5 ms   |
| Output ranges, voltage  |  |
| • 1 V to 5 V  | Yes  |
| • -10 V to +10 V  | Yes  |
| Connection of actuators   |  |
| • for voltage output two-wire connection                            | Yes; Without compensation of the line resistances                        |
| • for voltage output four-wire connection                           | Yes  |
| Load impedance (in rated range of output)                           |  |
| • with voltage outputs, min.  | 1 kΩ   |
| • with voltage outputs, capacitive load, max.                       | 1 μF   |
| Destruction limits against externally applied voltages and currents |  |
| • Voltages at the outputs towards MANA                              | 15 V; max. 15 V continuous; 75 V for max. 1 s (mark to space ratio 1:20) |
| • Current, max.   | 50 mA; DC  |
| Cable length  |  |
| • shielded, max.  | 200 m  |
| Analog value generation for the outputs                             |  |
| Integration and conversion time/resolution per channel              |  |
| • Resolution with overrange (bit including sign), max.              | 14 bit; 1 to 5 V: 12 bit, ±10 V: 13 bit + sign                           |
| Settling time   |  |
| • for resistive load  | 0.1 ms   |
| • for capacitive load   | 0.5 ms   |

|  |  |
|--|--|
| • for inductive load                                 | 0.5 ms   |
| <b>Errors/accuracies</b>                             |  |
| Operational error limit in overall temperature range |  |
| • Voltage, relative to output range, (+/-)           | 0.4 %  |
| Basic error limit (operational limit at 25 °C)       |  |
| • Voltage, relative to output range, (+/-)           | 0.2 %  |
| <b>Interrupts/diagnostics/status information</b>     |  |
| Substitute values connectable                        | Yes; 0 to 65535 (range of values must be within the rated range)   |
| Diagnoses  |  |
| • Diagnostic information readable                    | Yes  |
| • Short-circuit                                      | Yes  |
| • Group error  | Yes  |
| Diagnostics indication LED                           |  |
| • Group error SF (red)                               | Yes  |
| <b>Parameter</b>                                     |  |
| Remark   | 7 byte   |
| Diagnostics short-circuit                            | Disable / enable   |
| Group diagnostics                                    | Disable / enable   |
| Response to CPU/master STOP                          | Output current and de-energized/substitute a value/keep last value |
| <b>Potential separation</b>                          |  |
| Potential separation analog outputs                  |  |
| • between the channels                               | No   |
| • between the channels and backplane bus             | Yes  |
| • Between the channels and load voltage L+           | Yes  |
| <b>Isolation</b>                                     |  |
| Isolation tested with                                | 500 V DC   |
| <b>Dimensions</b>                                    |  |
| Width  | 15 mm  |
| Height   | 81 mm  |
| Depth  | 52 mm  |
| <b>Weights</b>                                       |  |
| Weight, approx.                                      | 40 g   |

**last modified:** 5/22/2024 