



SIPLUS ET 200S EM 2AQ I standard based on 6ES7135-4GB01-0AB0 with conformal coating, -25...+70 °C, +/-20 mA; 13 bit+sign, 4...20 mA; 13 bit cycle time less than 1 ms 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. | 150 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |
| Address area | |
| Address space per module | |
| • Address space per module, max. | 4 byte |
| Analog outputs | |
| Number of analog outputs | 2 |
| Current output, no-load voltage, max. | 18 V |
| Cycle time (all channels) max. | 1.5 ms |
| Output ranges, current | |
| • -20 mA to +20 mA | Yes |
| • 4 mA to 20 mA | Yes |
| Connection of actuators | |
| • for current output two-wire connection | Yes |
| • for current output four-wire connection | No |
| Load impedance (in rated range of output) | |
| • with current outputs, max. | 500 Ω |
| • with current outputs, inductive load, max. | 1 mH |
| 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; 4 to 20 mA: 13 bit, ±20 mA: 14 bit |
| Settling time | |
| • for resistive load | 0.1 ms |
| • for capacitive load | 0.5 ms |
| • for inductive load | 0.5 ms |
| Errors/accuracies | |
| Operational error limit in overall temperature range | |
| • Current, relative to output range, (+/-) | 0.5 % |
| Basic error limit (operational limit at 25 °C) | |

| | |
|---|---|
| • Current, relative to output range, (+/-) | 0.3 % |
| Interrupts/diagnostics/status information | |
| Substitute values connectable | Yes; 0 to 65535 (range of values must be within the rated range) |
| Diagnoses | |
| • Wire break | Yes |
| • Group error | Yes |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| Parameter | |
| Remark | 7 byte |
| Diagnostics wire break | Disable / enable |
| Group diagnostics | Disable / enable |
| Response to CPU/master STOP | Output current and de-energized/substitute a value/keep last value |
| Potential separation | |
| Potential separation analog outputs | |
| • between the channels | No |
| • between the channels and backplane bus | Yes |
| • Between the channels and load voltage L+ | Yes |
| Ambient conditions | |
| Ambient temperature during operation | |
| • min. | -25 °C; = Tmin |
| • max. | 70 °C; = Tmax |
| Altitude during operation relating to sea level | |
| • Installation altitude above sea level, max. | 5 000 m |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| Relative humidity | |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) |
| Resistance | |
| Use in stationary industrial systems | |
| — to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| — to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust, * |
| Use on ships/at sea | |
| — to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request |
| — to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * |
| Usage in industrial process technology | |
| — Against chemically active substances acc. to EN 60654-4 | Yes; Class 3 (excluding trichlorethylene) |
| — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! |
| Dimensions | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| Weights | |
| Weight, approx. | 40 g |
| Classifications | |

| | Version | Classification |
|--------|---------|----------------|
| 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



[Manufacturer Declaration](#)



[China RoHS](#)



EMV

For use in hazardous locations



[CCC-Ex](#)

last modified:

5/13/2024