

\*\*\* SPARE PART\*\*\* SIMATIC DP, ELECTRONIC MODULE 2 AI  
HIGH SPEED U FOR ET 200S, 15 MM WIDE, +/-10V; 11 BIT +  
SIGN, CYCLE TIME OF THE MODULE: 1MS WITH LED SF  
(GROUP FAULT)

| Supply voltage   |   |
|--|---|
| Load voltage L+  |   |
| • Rated value (DC)   | 24 V; From power module                   |
| Input current  |   |
| from load voltage L+ (without load), max.                                | 35 mA                                     |
| from backplane bus 3.3 V DC, max.  | 10 mA                                     |
| Power loss   |   |
| Power loss, typ.   | 0.8 W                                     |
| Address area   |   |
| Address space per module   |   |
| • Address space per module, max.   | 4 byte                                    |
| Analog inputs  |   |
| Number of analog inputs  | 2   |
| permissible input voltage for voltage input<br>(destruction limit), max. | 35 V; 35 V continuous; 75 V for max. 1 ms |
| Cycle time (all channels) max.   | 1 ms                                      |
| Input ranges   |   |
| • Voltage  | Yes                                       |
| Input ranges (rated values), voltages                                    |   |
| • -10 V to +10 V   | Yes                                       |
| Cable length   |   |
| • shielded, max.   | 200 m                                     |
| Analog value generation for the inputs                                   |   |
| Measurement principle  | Actual value encryption                   |
| Integration and conversion time/resolution per channel                   |   |
| • Resolution with overrange (bit including sign),<br>max.                | 12 bit                                    |
| • Conversion time (per channel)  | 0.1 ms                                    |
| Smoothing of measured values   |   |
| • parameterizable  | Yes                                       |
| • Step: None   | Yes                                       |
| • Step: low  | Yes                                       |

|  |                             |
|--|-----------------------------|
| • Step: Medium   | Yes                         |
| • Step: High   | Yes                         |
| <b>Errors/accuracies</b>   |                             |
| Linearity error (relative to input range), (+/-)   | 0.01 %                      |
| Temperature error (relative to input range), (+/-)   | 0.01 %/K                    |
| Crosstalk between the inputs, min.   | -50 dB                      |
| Repeat accuracy in steady state at 25 °C (relative to input area), (+/-)   | 0.15 %                      |
| <b>Operational error limit in overall temperature range</b>  |                             |
| • Voltage, relative to input area, (+/-)   | 1 %; +/-0.3% available soon |
| <b>Basic error limit (operational limit at 25 °C)</b>  |                             |
| • Voltage, relative to input area, (+/-)   | 0.7 %                       |
| <b>Interference voltage suppression for <math>f = n \times (f_1 +/ - 1 \%)</math>, <math>f_1</math> = interference frequency</b> |                             |
| • Series mode interference (peak value of interference < rated value of input range), min.                                       | 70 dB                       |
| <b>Interrupts/diagnostics/status information</b>   |                             |
| <b>Diagnostic messages</b>   |                             |
| • Wire-break   | No                          |
| • Group error  | Yes                         |
| • Overflow/underflow   | Yes                         |
| <b>Diagnostics indication LED</b>  |                             |
| • Group error SF (red)   | Yes                         |
| <b>Parameter</b>   |                             |
| Remark   | 4 byte                      |
| Measurement type/range   | deactivated / +/-10 V       |
| Group diagnostics  | Disable / enable            |
| Overflow/underflow   | Disable / enable            |
| <b>Potential separation</b>  |                             |
| <b>Potential separation analog inputs</b>  |                             |
| • between the channels   | No                          |
| • between the channels and backplane bus   | Yes                         |
| • Between the channels and load voltage L+   | Yes                         |
| <b>Permissible potential difference</b>  |                             |
| Between the inputs and MANA (UCM)  | 2 V AC PP                   |
| between MANA and M internally (UISO)   | 75 V DC/60 V AC             |
| <b>Dimensions</b>  |                             |
| Width  | 15 mm                       |
| Height   | 81 mm                       |
| Depth  | 52 mm                       |
| <b>Weights</b>   |                             |

Weight, approx.

40 g

last modified:

29.01.2016