

# SIEMENS

## Product data sheet

**6ES7134-4GB01-0AB0**


SIMATIC DP,  
ELECTRONIC MODULE FOR ET 200S,  
2 AI STAND. I-2DMU 15 MM WIDE,  
4 .. 20mA;  
13 BIT FOR 2-WIRE TRANSDUCER CYCLE TIME 65  
MS/CHANNEL WITH LED SF (GROUP FAULT)

|                                           |                                                              |
|-------------------------------------------|--------------------------------------------------------------|
| Supply voltage                            |                                                              |
| Load voltage L+                           |                                                              |
| Rated value (DC)                          | 24 V ; From power module                                     |
| Reverse polarity protection               | Yes ; Destruction limit 35 mA per channel                    |
| Input current                             |                                                              |
| from load voltage L+ (without load), max. | 80 mA                                                        |
| from backplane bus 3.3 V DC, max.         | 10 mA                                                        |
| Power losses                              |                                                              |
| 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                                                            |
| Cycle time (all channels) max.            | Number of active channels per module x basic conversion time |

|                                                                       |                                                    |
|-----------------------------------------------------------------------|----------------------------------------------------|
| permissible input current for current input (destruction limit), max. | 40 mA                                              |
| <b>Input ranges</b>                                                   |                                                    |
| Voltage                                                               | No                                                 |
| Current                                                               | Yes                                                |
| Thermocouple                                                          | No                                                 |
| Resistance thermometer                                                | No                                                 |
| Resistance                                                            | No                                                 |
| <b>Input ranges (rated values), currents</b>                          |                                                    |
| 4 to 20 mA                                                            | Yes ; on 50 ohms                                   |
| <b>Cable length</b>                                                   |                                                    |
| Cable length, shielded, max.                                          | 200 m                                              |
| <b>Analog value creation</b>                                          |                                                    |
| Measurement principle                                                 | integrating                                        |
| <b>Integrations and conversion time/ resolution per channel</b>       |                                                    |
| Resolution with overrange (bit including sign), max.                  | 13 bit ; 4 to 20 mA: 13 bits                       |
| Integration time, ms                                                  | 16.7 / 20 ms                                       |
| Interference voltage suppression for interference frequency f1 in Hz  | 60 / 50 Hz                                         |
| Conversion time (per channel)                                         | 65 ms ; 55 / 65 ms                                 |
| <b>Smoothing of measured values</b>                                   |                                                    |
| Parameterizable                                                       | Yes ; In four stages by means of digital filtering |
| Step: None                                                            | Yes ; 1 x cycle time                               |
| Step: low                                                             | Yes ; 4 x cycle time                               |
| Step: Medium                                                          | Yes ; 32 x cycle time                              |
| Step: High                                                            | Yes ; 64 x cycle time                              |
| <b>Encoder</b>                                                        |                                                    |
| <b>Connection of signal encoders</b>                                  |                                                    |
| Burden of 2-wire transmitter, max.                                    | 750 $\Omega$                                       |
| <b>Errors/accuracies</b>                                              |                                                    |
| Linearity error (relative to input area)                              | +/- 0,01 %                                         |
| Temperature error (relative to input area)                            | +/- 0,005 %/K                                      |
| Crosstalk between the inputs, min.                                    | -50 dB                                             |

|                                                                                                    |                          |
|----------------------------------------------------------------------------------------------------|--------------------------|
| Repeat accuracy in settled status at 25 °C (relative to input area)                                | +/- 0,05 %               |
| Operational limit in overall temperature range                                                     |                          |
| Current, relative to input area                                                                    | +/- 0,6 %                |
| Basic error limit (operational limit at 25 °C)                                                     |                          |
| Current, relative to input area                                                                    | +/- 0,4 %                |
| Interference voltage suppression for $f = n \times (f_l \pm 1\%)$ , $f_l$ = interference frequency |                          |
| Series mode interference (peak value of interference < rated value of input range), min.           | 70 dB                    |
| Isochronous mode                                                                                   |                          |
| Isochronous operation (application synchronized up to terminal)                                    | No                       |
| Interrupts/diagnostics/status information                                                          |                          |
| Diagnostic messages                                                                                |                          |
| Wire break                                                                                         | Yes                      |
| Group error                                                                                        | Yes                      |
| Overflow/underflow                                                                                 | Yes                      |
| Diagnostics indication LED                                                                         |                          |
| Group error SF (red)                                                                               | Yes                      |
| Parameter                                                                                          |                          |
| Measurement type/range                                                                             | deactivated / 4 to 20 mA |
| Group diagnostics                                                                                  | Disable / enable         |
| Overflow/underflow                                                                                 | Disable / enable         |
| Galvanic isolation                                                                                 |                          |
| Galvanic isolation analog inputs                                                                   |                          |
| between the channels                                                                               | No                       |
| between the channels and the backplane bus                                                         | Yes                      |
| between the channels and the load voltage L+                                                       | No                       |
| Isolation                                                                                          |                          |
| Isolation checked with                                                                             | 500 V DC                 |
| Dimensions                                                                                         |                          |
| Width                                                                                              | 15 mm                    |
| Height                                                                                             | 81 mm                    |
| Depth                                                                                              | 52 mm                    |

| Weight          |              |
|-----------------|--------------|
| Weight, approx. | 40 g         |
| Status          | Jul 17, 2012 |