



*** Spare part *** SIMATIC DP, Electronics module 2 AI I High Feature for ET 200S, 15 mm width, Cycle time per module: 0.5 ms, +/-20mA; 15 bit+sign, 4.. 20mA; 15 bit, Operational limit +/-0.1% with SF LED (group fault)

General information	
Product function	
• Isochronous mode	Yes
Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	48 mA
from backplane bus 3.3 V DC, max.	10 mA
Output voltage	
Power supply to the transmitters	
• present	Yes
• short-circuit proof	Yes
Power loss	
Power loss, typ.	1.2 W
Address area	
Address space per module	
• Address space per module, max.	4 byte
Analog inputs	
Number of analog inputs	2
permissible input current for current input (destruction limit), max.	50 mA
Cycle time (all channels) max.	0.5 ms; 0.5 ms for 2 channels without noise suppression, 18 / 21 ms per channel with noise suppression
Input ranges (rated values), currents	
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Measurement principle	Sigma Delta
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	16 bit
• Interference voltage suppression for interference frequency f1 in Hz	60 / 50 Hz / no
• Conversion time (per channel)	0.04 ms; Without noise suppression 17/20 ms per channel with error
Smoothing of measured values	
• Parameterizable	Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time

- | | |
|----------------|----------|
| • Step: None | Yes; 1x |
| • Step: low | Yes; 4x |
| • Step: Medium | Yes; 16x |
| • Step: High | Yes; 32x |

Encoder

Connection of signal encoders

- | | |
|--|-------|
| • for current measurement as 2-wire transducer
— Burden of 2-wire transmitter, max. | 750 Ω |
|--|-------|

Errors/accuracies

Operational error limit in overall temperature range

- | | |
|---|--|
| • Current, relative to input range, (+/-) | 0.1 %; 0.2% without interference frequency suppression |
|---|--|

Basic error limit (operational limit at 25 °C)

- | | |
|---|---|
| • Current, relative to input range, (+/-) | 0.05 %; 0.1% without interference frequency suppression |
|---|---|

Interrupts/diagnostics/status information

Alarms

- | | |
|----------------------|-----|
| • Hardware interrupt | Yes |
|----------------------|-----|

Diagnoses

- | | |
|----------------------|--------------------------------------|
| • Wire break | Yes; Measuring range 4 to 20 mA only |
| • Group error | Yes |
| • Overflow/Underflow | Yes |

Diagnostics indication LED

- | | |
|------------------------|-----|
| • Group error SF (red) | Yes |
|------------------------|-----|

Potential separation

Potential separation analog inputs

- | | |
|--|---|
| • between the channels | No; however, increased permissible potential difference between the inputs. |
| • 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
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Classifications

	Version	Classification
eClass	16	27-24-26-01
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](#)



[Miscellaneous](#)



[Metrological Approval](#)

General Product Approval	EMV
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[China RoHS](#)



For use in hazardous locations



[FM](#)



For use in hazardous locations	Maritime application
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[Miscellaneous](#)

[CCC-Ex](#)



Maritime application	Environment
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[NK / Nippon Kaiji Ky-
okai](#)



[CCS \(China Classifica-
tion Society\)](#)

[KR \(Korean Register
of Shipping\)](#)

[China RoHS](#)

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