



*** Spare part *** SIMATIC DP, Electronics module f. ET200S, 2AI Standard I-4DMU 15 mm width, +/-20mA; 13 bit+sign 4.. 20mA; 12-bit for 4-wire transmitter
Cycle time 65 ms/channel 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
Input current	
from load voltage L+ (without load), max.	30 mA
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
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
permissible input current for current input (destruction limit), max.	40 mA
Cycle time (all channels) max.	Number of active channels per module x basic conversion time
Input ranges (rated values), currents	
• -20 mA to +20 mA	Yes; 50 Ohm
• 4 mA to 20 mA	Yes; 50 Ohm
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Measurement principle	integrating
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	14 bit; ±20 mA: 14 bit, 4 to 20 mA: 13 bit
• Integration time (ms)	16,7 / 20 ms
• Interference voltage suppression for interference frequency f1 in Hz	50 / 60 Hz
• Conversion time (per channel)	65 ms; 55 / 65 ms
Smoothing of measured values	
• Parameterizable	Yes; In four stages by means of digital filtering
• Step: None	Yes; 1x cycle time
• Step: low	Yes; 4x cycle time
• Step: Medium	Yes; 32x cycle time
• Step: High	Yes; 64x cycle time
Encoder	

Connection of signal encoders			
<ul style="list-style-type: none">• for current measurement as 2-wire transducer<ul style="list-style-type: none">— Burden of 2-wire transmitter, max.	750 Ω		
Errors/accuracies			
Operational error limit in overall temperature range			
<ul style="list-style-type: none">• Current, relative to input range, (+/-)	0.6 %		
Basic error limit (operational limit at 25 °C)			
<ul style="list-style-type: none">• Current, relative to input range, (+/-)	0.4 %		
Interrupts/diagnostics/status information			
Diagnoses			
<ul style="list-style-type: none">• Wire break	Yes; Measuring range 4 to 20 mA only		
<ul style="list-style-type: none">• Group error	Yes		
<ul style="list-style-type: none">• Overflow/Underflow	Yes		
Diagnostics indication LED			
<ul style="list-style-type: none">• Group error SF (red)	Yes		
Potential separation			
Potential separation analog inputs			
<ul style="list-style-type: none">• between the channels	No		
<ul style="list-style-type: none">• between the channels and backplane bus	Yes		
<ul style="list-style-type: none">• Between the channels and load voltage L+	No		
Isolation			
Isolation tested with	500 V DC		
Dimensions			
Width	15 mm		
Height	81 mm		
Depth	52 mm		
Weights			
Weight, approx.	40 g		
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			
Miscellaneous	Manufacturer Declaration		Metrological Approval
			
General Product Approval			EMV



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For use in hazardous locations



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Maritime application

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