



*** Spare part *** SIMATIC DP, Electronics module ET 200S 4AI standard I-2-wire, 4-20 mA; 13 bit, 15 mm width, for 2-wire transducer Cycle time 40 ms/module 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
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	125 mA
from backplane bus 3.3 V DC, max.	10 mA
output voltage / header	
supply voltage of the transmitters / header	
• present	Yes
• short-circuit proof	Yes; approx. 200 mA for module
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
• Address space per module, max.	8 byte
Analog inputs	
Number of analog inputs	4
permissible input current for current input (destruction limit), max.	30 mA; limited electronically
Cycle time (all channels) max.	40 ms; 33 to 40 ms
Input ranges (rated values), currents	
• 4 mA to 20 mA	Yes; Into 25 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.	13 bit; 4 to 20 mA: 13 bit
• Integration time, parameterizable	Yes
• Integration time (ms)	16,67 / 20 ms
• Interference voltage suppression for interference frequency f1 in Hz	50 / 60 Hz
Smoothing of measured values	
• parameterizable	Yes; in 4 stages
• Step: None	Yes; 1x cycle time
• Step: low	Yes; 4x cycle time

• Step: Medium • Step: High		Yes; 16x cycle time	
		Yes; 32x cycle time	
Errors/accuracies			
Operational error limit in overall temperature range			
• Current, relative to input range, (+/-)	0.4 %		
Basic error limit (operational limit at 25 °C)			
• Current, relative to input range, (+/-)	0.3 %		
Interrupts/diagnostics/status information			
Diagnoses			
• Wire-break • Group error • Overflow/underflow	Yes; Measuring range 1 to 5 V only		
	Yes		
	Yes		
Diagnostics indication LED			
• Group error SF (red)	Yes		
Parameter			
Remark	7 byte		
Diagnostics wire break	1		
Group diagnostics	1		
Overflow/underflow	1		
Potential separation			
Potential separation analog inputs			
• between the channels • between the channels and backplane bus • Between the channels and load voltage L+	No		
	Yes		
	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	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	9	EC001596
	ETIM	8	EC001596
	ETIM	7	EC001596
	IDEA	4	3562
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			
Manufacturer Declaration  EG-Konf.   UL Metrological Approval  RCM			
EMV		For use in hazardous locations	



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[Miscellaneous](#)



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PRS



RINA

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tion Society\)](#)

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