



*** Spare part *** SIMATIC DP, Electronics module for ET 200S, 2/4 AI RTD Standard, 15 mm width, 15 bit+sign Pt100 STD; Pt100 KL; NI100 STD; NI100 KL; 150 ohm; 300 ohm; 600 ohm; Cycle time 110 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
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	30 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.	0.6 W
Address area	
Address space per module	
• Address space per module, max.	8 byte
Analog inputs	
Number of analog inputs	4; 2 for 3 or 4-wire connection
permissible input voltage for voltage input (destruction limit), max.	9 V
Constant measurement current for resistance-type transmitter, typ.	1.67 mA
Cycle time (all channels) max.	Number of active channels per module x basic conversion time
Technical unit for temperature measurement adjustable	No
Input ranges (rated values), resistance thermometer	
• Ni 100	Yes; Standard/climate
— Input resistance (Ni 100)	2 000 kΩ
• Pt 100	Yes; Standard/climate
— Input resistance (Pt 100)	2 000 kΩ
Input ranges (rated values), resistors	
• 0 to 150 ohms	Yes
— Input resistance (0 to 150 ohms)	2 000 kΩ
• 0 to 300 ohms	Yes
— Input resistance (0 to 300 ohms)	2 000 kΩ
• 0 to 600 ohms	Yes
— Input resistance (0 to 600 ohms)	2 000 kΩ

Characteristic linearization			
Parameterizable		Yes; for Pt100, Ni100	
— for resistance thermometer		Pt100 (standard, climatic range), Ni100 (standard, climatic range)	
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.		16 bit; 150 ohms: 14 bit; 300, 600 ohms: 15 bit, Pt100, Ni100: 16 bit	
Integration time, parameterizable		Yes	
Integration time (ms)		16,7 / 20 ms	
Interference voltage suppression for interference frequency f1 in Hz		50 / 60 Hz	
Conversion time (per channel)		66 / 80 ms; additional conversion time for diagnostic wire break test	
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			
for resistance measurement with two-wire connection		Yes	
for resistance measurement with three-wire connection		Yes	
for resistance measurement with four-wire connection		Yes	
Errors/accuracies			
Operational error limit in overall temperature range			
Resistance thermometer, relative to input range, (+/-)		0.6 %	
Basic error limit (operational limit at 25 °C)			
Resistance thermometer, relative to input range, (+/-)		0.4 %	
Interrupts/diagnostics/status information			
Diagnoses			
Wire break		Yes	
Group error		Yes	
Overflow/Underflow		Yes	
Diagnostics indication LED			
Group error SF (red)		Yes	
Potential separation			
Potential separation analog inputs			
between the channels		No	
between the channels and backplane bus		Yes	
Between the channels and load voltage L+		Yes	
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



[China RoHS](#)



For use in hazardous locations



[FM](#)



For use in hazardous locations

Maritime application

[Miscellaneous](#)

[CCC-Ex](#)



Maritime application

Environment

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)

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

[China RoHS](#)

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