

*** SPARE PART*** SIMATIC DP, EXPANSION MODULE EM 144
FOR ET 200X, IP66/67 2AI, +/- 10V, 12 BIT + SIGN, WITH
DIAGNOSIS BY CHANNEL



Figure similar

Input current	
from supply voltage L+, max.	40 mA
Encoder supply	
Number of outputs	2
Short-circuit protection	Yes; Electronic
Output current	
• up to 40 °C, max.	0.9 A
• up to 55 °C, max.	0.7 A
Power loss	
Power loss, typ.	0.9 W
Analog inputs	
Number of analog inputs	2
permissible input voltage for voltage input (destruction limit), max.	30 V
Input ranges	
• Voltage	Yes
Input ranges (rated values), voltages	
• -10 V to +10 V	Yes

• Input resistance (-10 V to +10 V)	100 kΩ
Cable length	
• shielded, max.	30 m
Analog value generation	
Analog value display, parameterizable	Yes; S7 Format / S5 Format
Measurement principle	integrating
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	12 bit; + sign; overrange 17.5%
• Integration time, parameterizable	Yes
• Integration time (ms)	16,7 / 20 ms
• Interference voltage suppression for interference frequency f1 in Hz	50 / 60 Hz
Encoder	
Connection of signal encoders	
• for voltage measurement	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
• Voltage, relative to input area, (+/-)	1.2 %
• Current, relative to input area, (+/-)	1.2 %
Interrupts/diagnostics/status information	
Alarms	
• Diagnostic alarm	Yes
• Limit value alarm	Yes; upper limit, channel by channel/ lower limit channel by channel
• Hardware interrupt	Yes
Diagnostic messages	
• Diagnostic functions	Yes; Parameterizable
• Overflow/underflow	Yes; channel by channel
Diagnostics indication LED	
• Group error SF (red)	Yes
Potential separation	
Potential separation analog inputs	
• Potential separation analog inputs	No
Connection method	
Inputs/outputs	4/5-pin M12 circular connectors
Dimensions	
Width	87 mm; Width module 60 mm
Height	110 mm
Depth	55 mm

Weights

Weight, approx.

250 g

last modified:

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