

*** SPARE PART*** SIMATIC DP, DISTRIBUTED I/O ET200R:
HANDLING MODULE IP65, METAL HOUSING, 8 DI + 8 DI/DO
PARAMETRIERBAR, DC 24V, 5 PIN, 8 X M12; 2 X M23 (DP, PS,
ANALOG)



Figure similar

Supply voltage	
Rated value (DC)	24 V; -15 / +20 %
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes; Also electronic protection
Encoder supply	
Number of outputs	8
Output current	
• Rated value	0.5 A; 8 channels each
Digital inputs	
Number of digital inputs	8; 16 process channels, 8 DI fixed, 8 DI/DO can be set in parameters
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Input voltage	
• Type of input voltage	DC
• for signal "0"	-3 to +5V

• for signal "1"	+15 to +30V
Input current	
• for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	3 ms; Typical
Cable length	
• unshielded, max.	10 m; for signal lines
Digital outputs	
Number of digital outputs	8; 16 process channels, 8 DI fixed, 8 DI/DO can be set in parameters
Short-circuit protection	Yes
Output current	
• for signal "1" permissible range for 0 to 55 °C, max.	0.5 A
Switching frequency	
• with resistive load, max.	100 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 55 °C, max.	2 A
Cable length	
• unshielded, max.	10 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
Interfaces	
PROFIBUS DP	
Cable length	
— Cable length, max.	30 m; Per line, shielded
Protocols	
PROFIBUS DP	Yes; Ramp-up time at 12 Mbit/s: Approx. 80 ms
Interrupts/diagnostics/status information	
Diagnostic functions	Yes; Diagnostic frames
Diagnostic messages	
• Short-circuit	Yes; (Digital outputs) per group; X0 to X1 or X2 to X3
• Short-circuit encoder supply	Yes; per group X0 to X3 or X4 to X7
• missing load voltage	Yes
Diagnostics indication LED	
• Description	Channel 01, Channel 02
• Bus fault BF (red)	Yes

• Rated load voltage PWR (green)	Yes; 24 V DC (load voltage) US2
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes
• Status indicator digital output (green)	Yes
• Monitoring 24 V voltage supply ON (green)	Yes; (Logic circuits/encoder voltage) US1

Degree and class of protection

Degree of protection acc. to EN 60529	IP65
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Standards, approvals, certificates

CE mark	Yes
CSA approval	Yes; ES 02 or higher
UL approval	Yes; ES 02 or higher

Ambient conditions

Ambient temperature during operation	
• max.	55 °C

Connection method

Design of electrical connection for the inputs and outputs	8x 5-pin M12x1 circular connector
Bus cables	Bus and voltage: X01/X02: 2x M23 (17-pin)

Mechanics/material

Design of housing	Die-cast aluminum
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Dimensions

Width	54 mm
Height	55 mm; 64 mm incl. overall plug height
Depth	150 mm

Weights

Weight, approx.	780 g
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last modified: 08/12/2017