

SIMATIC DP, electronics module for ET200iSP, 4 AQ HART, 4 ... 20 mA, for connecting HART field devices Supported HART protocol Version 6.0



Figure similar

Input current	
Current consumption, typ.	295 mA
from load voltage L+ (without load), max.	330 mA
Power loss	
Power loss, typ.	2.7 W
Analog outputs	
Number of analog outputs	4
Cycle time (all channels) max.	3.6 ms
Output ranges, current	
• 0 to 20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
• for current output two-wire connection	Yes
Load impedance (in rated range of output)	
• with current outputs, max.	750 Ω
Cable length	

- shielded, max.

500 m

Analog value generation for the outputs

Integration and conversion time/resolution per channel

- Resolution with overrange (bit including sign), max. 14 bit

Settling time

- for resistive load 4 ms
- for capacitive load 40 ms
- for inductive load 40 ms

Errors/accuracies

- Linearity error (relative to output range), (+/-) 0.015 %
- Temperature error (relative to output range), (+/-) 0.005 %/K
- Crosstalk between the outputs, min. -50 dB
- Repeat accuracy in steady state at 25 °C (relative to output range), (+/-) 0.01 %
- Operational error limit in overall temperature range
 - Current, relative to output range, (+/-) 0.15 %
- Basic error limit (operational limit at 25 °C)
 - Current, relative to output range, (+/-) 0.1 %

Interrupts/diagnostics/status information

- Substitute values connectable Yes

Alarms

- Diagnostic alarm Yes

Diagnostic messages

- Diagnostic information readable Yes
- Wire-break Yes
- Short-circuit Yes

Diagnostics indication LED

- Group error SF (red) Yes

Potential separation

Potential separation analog outputs

- between the channels No
- between the channels and backplane bus Yes

Standards, approvals, certificates

- CE mark Yes

Use in hazardous areas

- Type of protection acc. to EN 50020 (CENELEC) II2 G (1) GD Ex ib[ia] IIC T4 and I M2 Ex ib[ia] I
- Type of protection acc. to KEMA 04 ATEX 1250

Dimensions

Width	30 mm
Height	129 mm
Depth	136.5 mm
Weights	
Weight, approx.	265 g
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