SIEMENS

Data sheet

6DL1135-6TF00-0PH1



SIMATIC ET 200SP HA, analog output module, AQ 8XI HART HA suitable for terminal block H1, M1, color code CC00, channel diagnostics, 16-bit, \pm 0.1%

General information	
Product type designation	AQ 8 x I HART HA
Firmware version	V1.0
 FW update possible 	Yes
Usable terminal block	TB type H1, M1, P0 and N0
Color code for module-specific color identification plate	CC00
Product function	
I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V16
 STEP 7 configurable/integrated from version 	V5.6
 PCS 7 configurable/integrated from version 	V9.0
 PCS neo can be configured/integrated from version 	V3.0
 PROFINET from GSD version/GSD revision 	GSDML V2.3
Redundancy	
 Redundancy capability 	Yes; With TB type M1
CiR - Configuration in RUN	
Reparameterization possible in RUN	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption (rated value)	230 mA; 8x 20 mA with 750 ohm load resistance
Current consumption, max.	350 mA; 8x 24 mA with 750 ohm load resistance
Power loss	
Power loss, typ.	3.2 W
Address area	
Address space per module	
 Address space per module, max. 	17 byte; 16-byte outputs and 1 byte for QI information
 Address space per module with HART, max. 	57 byte; 40-byte inputs for HART and 1 byte for QI information, 16-byte outputs
Address space per module with MultiHART, max.	24 byte; 6-byte inputs for HART and 1 byte for QI information, 16-byte outputs, and 1-byte output for MultiHART command
Analog outputs	
Number of analog outputs	8; short-circuit proof with respect to ground
Current output, no-load voltage, max.	28 V
Output ranges, current	
• 0 to 10 mA	Yes; 14 bit
• 0 to 20 mA	Yes; 15 bit

20 mA to 120 mA	No
• -20 mA to +20 mA	No
• 4 mA to 20 mA	Yes; 16 bit incl. sign
Connection of actuators	· ·
for current output two-wire connection	Yes
Load impedance (in rated range of output)	
 for current outputs, min. 	150 Ω
with current outputs, max.	750 Ω
 with current outputs, inductive load, max. 	10 mH
Destruction limits against externally applied voltages and currents	
Voltages at the outputs	36 V; Minus 0.3 V lower limit
Cable length	
• shielded, max.	1 000 m; with unshielded cables up to 800 m, remember that (external) EMC loads can cause incorrect measured values
Analog value generation for the outputs	
Settling time	
 for resistive load 	1.2 ms; 750 ohm
for inductive load	1.2 ms
Errors/accuracies	
Linearity error (relative to output range), (+/-)	0.01 %
Temperature error (relative to output range), (+/-)	0.002 %/K
Crosstalk between the outputs, min.	70 dB
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.02 %
Operational error limit in overall temperature range	
Current, relative to output range, (+/-)	0.5 %; 0 60 °C: 0.2 %
Basic error limit (operational limit at 25 °C)	0.0 70, 0 00 0. 0.2 70
	0.1%
Current, relative to output range, (+/-) Interrupts/disappastics/status information	0.1 %
Interrupts/diagnostics/status information	V
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
 Monitoring the supply voltage 	Yes
Wire-break	Yes; channel by channel
 Short-circuit 	Yes; channel by channel
Overflow/underflow	Yes; channel by channel
Diagnostics indication LED	
MAINT LED	Yes; Yellow LED
 Monitoring of the supply voltage (PWR-LED) 	Yes; green PWR LED
Channel status display	Yes; green LED
for channel diagnostics	Yes; red LED
for module diagnostics	Yes; green/red DIAG LED
Potential separation	, •
Potential separation channels	
between the channels	No
between the channels and backplane bus	Yes
Between the channels and load voltage L+	Yes
Between the channels and load voltage L+ Isolation	165
	4 F00 V P0 V - 1 - 1 - 1 - 1
Isolation tested with	1 500 V DC/1 min, type test
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-40 °C
 horizontal installation, max. 	70 °C
 vertical installation, min. 	-40 °C
 vertical installation, max. 	60 °C
Dimensions	
Width	22.5 mm
Height	115 mm
Depth	138 mm
Weights	
weldnts	

Weight, approx.	160 g

last modified: 8/16/2023 🖸