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Data sheet 6DL1134-6UD00-0PK0

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SIMATIC ET 200SP HA, analog HART input module, AI 4XI 2-/4-Wire HART isol, suitable for terminal block K0, L0, color code CC01, channel diagnostics, 16-bit, +/- 0.1%,

General information	
Product type designation	AI 4xI 2-/4-wire HART ISOL HA
Firmware version	V1.0
● FW update possible	Yes; The firmware update can take more than 5 minutes.
Usable terminal block	type K0, L0, S0, R0 (see system manual for details)
Color code for module-specific color-coded label	CC40
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V17
● STEP 7 configurable/integrated from version	V5.6
● PCS 7 configurable/integrated from version	V9.1
● PCS neo can be configured/integrated from version	V3.0
● PROFINET from GSD version/GSD revision	GSDML V2.35
Redundancy	
● Redundancy capability	Yes; see the system manual
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)	184 mA; sensor supply without loads
Current consumption, max.	234 mA; at 1.5 kOhm load on sensor supply
Encoder supply	
Number of outputs	4
Output voltage (DC)	24 V
Output voltage, min.	19.2 V
Short-circuit protection	Yes; Electronic
Output current	
● Rated value	20 mA
● permissible range, lower limit	0 mA
● permissible range, upper limit	23.52 mA
24 V encoder supply	

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● 24 V	Yes
● Short-circuit protection	Yes
● Output current per channel, max.	23.5 mA
● Output current per module, max.	88 mA
Power loss	
Power loss, typ.	1.8 W
Address area	
Address space per module	
● Address space per module, max.	9 byte; 8 bytes for inputs and 1 byte for QI information
● Address space per module with HART, max.	29 byte; 8 bytes for inputs, 1 byte for QI information, 20 bytes for HART information
● Address space per module with MultiHART, max.	16 byte; 8 bytes for inputs, 1 byte for QI information, 6 bytes for HART information, 1 byte for HART command
Analog inputs	
Number of analog inputs	4
● For current measurement	4
permissible input current for current input (destruction limit), max.	30 mA
Input ranges (rated values), currents	
● 0 to 20 mA	Yes; 16 bit incl. sign
— Input resistance (0 to 20 mA)	250 Ω
● 4 mA to 20 mA	Yes; 16 bit incl. sign
— Input resistance (4 mA to 20 mA)	250 Ω
Cable length	
● shielded, max.	800 m; with unshielded cables up to 800 m, remember that (external) EMC loads can cause incorrect measured values
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
● Resolution with overrange (bit including sign), max.	16 bit; 14 bit at 60 Hz (0 ... 10 mA), 16 bit at 10 Hz, 15 bit at 50 Hz and 15 bit at 60 Hz interference suppression
Smoothing of measured values	
● Parameterizable	Yes; none, weak, medium, strong, channel-by-channel
Encoder	
Connection of signal encoders	
● for current measurement as 2-wire transducer	Yes
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.01 %
Temperature error (relative to input range), (+/-)	0.005 %/K
Crosstalk between the inputs, min.	60 dB
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.05 %
Operational error limit in overall temperature range	
● Current, relative to input range, (+/-)	0.5 %
Basic error limit (operational limit at 25 °C)	
● Current, relative to input range, (+/-)	0.1 %
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
● Diagnostic alarm	Yes
● Limit value alarm	Yes; two upper and two lower limit values in each case
Diagnoses	
● Monitoring the supply voltage	Yes
● Wire break	Yes; channel by channel
● short-circuit	Yes; Channel-by-channel, short-circuit of the encoder supply to ground or of an input to the encoder supply
● 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

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● for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
● between the channels	Yes; 125 V AC / 150 V DC (when using terminal blocks with push-in terminals); SELV/PELV (when using terminal blocks with D-SUB)
● between the channels and backplane bus	Yes; 125 V AC / 150 V DC (when using terminal blocks with push-in terminals); SELV/PELV (when using terminal blocks with D-SUB)
● between the channels and the power supply of the electronics	Yes; 125 V AC / 150 V DC (when using terminal blocks with push-in terminals); SELV/PELV (when using terminal blocks with D-SUB)
Permissible potential difference	
between the channels	125 V AC / 150 V DC (when using terminal blocks with push-in terminals); SELV/PELV (when using terminal blocks with D-SUB)
between the channels and supply voltage	125 V AC / 150 V DC (when using terminal blocks with push-in terminals); SELV/PELV (when using terminal blocks with D-SUB)
between the channels and backplane bus	125 V AC / 150 V DC (when using terminal blocks with push-in terminals); SELV/PELV (when using terminal blocks with D-SUB)
Isolation	
tested with	
● between backplane bus and load voltage	3 000 V DC/1 min, type test
● between the channels and load voltage	between the channels 2 100 V DC/1 min, type test (when using terminal blocks with push-in terminals); 1 200 V DC/1 min, type test (when using terminal blocks with D-SUB)
● between the channels and backplane bus	3 000 V DC/1 min, type test
● Between channels	between the channels 4 200 V DC/1 min, type test (when using terminal blocks with push-in terminals); 1 200 V DC/1 min, type test (when using terminal blocks with D-SUB)
Ambient conditions	
Ambient temperature during operation	
● horizontal installation, min.	-40 °C
● horizontal installation, max.	70 °C
● vertical installation, min.	-40 °C
● vertical installation, max.	70 °C
Dimensions	
Width	22.5 mm
Height	115 mm
Depth	138 mm
Weights	
Weight, approx.	163 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

Approvals / Certificates

General Product Approval

Miscellaneous

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General Product Approval					For use in hazardous locations
CE EG-Konf.	China RoHS	Miscellaneous	UKCA	Manufacturer Declaration	Declaration of Conformity

For use in hazardous locations					Maritime application
IECEx	CCC-Ex	Type Examination Certificate	UL	Miscellaneous	ABS

Maritime application					Environment
BUREAU VERITAS	DNV	LRS	NK / Nippon Kaiji Kyokai	CCS (China Classification Society)	Siemens EcoTech

Environment
EPD

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