

Siemens  
EcoTech



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
<ul style="list-style-type: none"> <li>FW update possible</li> </ul>	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	
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V17
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.6
<ul style="list-style-type: none"> <li>PCS 7 configurable/integrated from version</li> </ul>	V9.1
<ul style="list-style-type: none"> <li>PCS neo can be configured/integrated from version</li> </ul>	V3.0
<ul style="list-style-type: none"> <li>PROFINET from GSD version/GSD revision</li> </ul>	GSDML V2.35
Redundancy	
<ul style="list-style-type: none"> <li>Redundancy capability</li> </ul>	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	
<ul style="list-style-type: none"> <li>Rated value</li> </ul>	20 mA
<ul style="list-style-type: none"> <li>permissible range, lower limit</li> </ul>	0 mA
<ul style="list-style-type: none"> <li>permissible range, upper limit</li> </ul>	23.52 mA
24 V encoder supply	

<ul style="list-style-type: none"> <li>• 24 V</li> <li>• Short-circuit protection</li> <li>• Output current per channel, max.</li> <li>• Output current per module, max.</li> </ul>	<p>Yes</p> <p>Yes</p> <p>23.5 mA</p> <p>88 mA</p>
<b>Power loss</b>	
Power loss, typ.	1.8 W
<b>Address area</b>	
Address space per module	
<ul style="list-style-type: none"> <li>• Address space per module, max.</li> <li>• Address space per module with HART, max.</li> <li>• Address space per module with MultiHART, max.</li> </ul>	<p>9 byte; 8 bytes for inputs and 1 byte for QI information</p> <p>29 byte; 8 bytes for inputs, 1 byte for QI information, 20 bytes for HART information</p> <p>16 byte; 8 bytes for inputs, 1 byte for QI information, 6 bytes for HART information, 1 byte for HART command</p>
<b>Analog inputs</b>	
Number of analog inputs	4
<ul style="list-style-type: none"> <li>• For current measurement</li> </ul>	4
permissible input current for current input (destruction limit), max.	30 mA
Input ranges (rated values), currents	
<ul style="list-style-type: none"> <li>• 0 to 20 mA <ul style="list-style-type: none"> <li>— Input resistance (0 to 20 mA)</li> </ul> </li> <li>• 4 mA to 20 mA <ul style="list-style-type: none"> <li>— Input resistance (4 mA to 20 mA)</li> </ul> </li> </ul>	<p>Yes; 16 bit incl. sign</p> <p>250 Ω</p> <p>Yes; 16 bit incl. sign</p> <p>250 Ω</p>
Cable length	
<ul style="list-style-type: none"> <li>• shielded, max.</li> </ul>	800 m; with unshielded cables up to 800 m, remember that (external) EMC loads can cause incorrect measured values
<b>Analog value generation for the inputs</b>	
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> <li>• Resolution with overrange (bit including sign), max.</li> </ul>	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	
<ul style="list-style-type: none"> <li>• parameterizable</li> </ul>	Yes; none, weak, medium, strong, channel-by-channel
<b>Encoder</b>	
Connection of signal encoders	
<ul style="list-style-type: none"> <li>• for current measurement as 2-wire transducer</li> </ul>	Yes
<b>Errors/accuracies</b>	
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	
<ul style="list-style-type: none"> <li>• Current, relative to input range, (+/-)</li> </ul>	0.5 %
Basic error limit (operational limit at 25 °C)	
<ul style="list-style-type: none"> <li>• Current, relative to input range, (+/-)</li> </ul>	0.1 %
<b>Interrupts/diagnostics/status information</b>	
Diagnostics function	Yes
Alarms	
<ul style="list-style-type: none"> <li>• Diagnostic alarm</li> <li>• Limit value alarm</li> </ul>	<p>Yes</p> <p>Yes; two upper and two lower limit values in each case</p>
Diagnoses	
<ul style="list-style-type: none"> <li>• Monitoring the supply voltage</li> <li>• Wire break</li> <li>• Short-circuit</li> <li>• Overflow/Underflow</li> </ul>	<p>Yes</p> <p>Yes; channel by channel</p> <p>Yes; Channel-by-channel, short-circuit of the encoder supply to ground or of an input to the encoder supply</p> <p>Yes; channel by channel</p>
Diagnostics indication LED	
<ul style="list-style-type: none"> <li>• MAINT LED</li> <li>• Monitoring of the supply voltage (PWR-LED)</li> <li>• Channel status display</li> <li>• for channel diagnostics</li> </ul>	<p>Yes; Yellow LED</p> <p>Yes; green PWR LED</p> <p>Yes; green LED</p> <p>Yes; red LED</p>

<ul style="list-style-type: none"> <li>for module diagnostics</li> </ul>	Yes; green/red DIAG LED		
<b>Potential separation</b>			
Potential separation channels			
<ul style="list-style-type: none"> <li>between the channels</li> </ul>	Yes; 125 V AC / 150 V DC (when using terminal blocks with push-in terminals); SELV/PELV (when using terminal blocks with D-SUB)		
<ul style="list-style-type: none"> <li>between the channels and backplane bus</li> </ul>	Yes; 125 V AC / 150 V DC (when using terminal blocks with push-in terminals); SELV/PELV (when using terminal blocks with D-SUB)		
<ul style="list-style-type: none"> <li>between the channels and the power supply of the electronics</li> </ul>	Yes; 125 V AC / 150 V DC (when using terminal blocks with push-in terminals); SELV/PELV (when using terminal blocks with D-SUB)		
<b>Permissible potential difference</b>			
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)		
<b>Isolation</b>			
tested with			
<ul style="list-style-type: none"> <li>between backplane bus and load voltage</li> </ul>	3 000 V DC/1 min, type test		
<ul style="list-style-type: none"> <li>between the channels and load voltage</li> </ul>	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)		
<ul style="list-style-type: none"> <li>between the channels and backplane bus</li> </ul>	3 000 V DC/1 min, type test		
<ul style="list-style-type: none"> <li>Between channels</li> </ul>	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)		
<b>Ambient conditions</b>			
Ambient temperature during operation			
<ul style="list-style-type: none"> <li>horizontal installation, min.</li> </ul>	-40 °C		
<ul style="list-style-type: none"> <li>horizontal installation, max.</li> </ul>	70 °C		
<ul style="list-style-type: none"> <li>vertical installation, min.</li> </ul>	-40 °C		
<ul style="list-style-type: none"> <li>vertical installation, max.</li> </ul>	70 °C		
<b>Dimensions</b>			
Width	22.5 mm		
Height	115 mm		
Depth	138 mm		
<b>Weights</b>			
Weight, approx.	163 g		
<b>Classifications</b>			
		<b>Version</b>	<b>Classification</b>
	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

<b>Approvals / Certificates</b>	
General Product Approval	



[Miscellaneous](#)



For use in hazardous locations

[Declaration of Con-  
formity](#)



IECEX

[CCC-Ex](#)

[Type Examination Cer-  
tificate](#)



UL

[Miscellaneous](#)

Maritime application



ABS



BUREAU  
VERITAS



DNV



LRS

[NK / Nippon Kaiji Ky-  
okai](#)

[CCS \(China Classifica-  
tion Society\)](#)

Environment

Siemens  
EcoTech



last modified:

2/11/2026

# TURLL

YOUR GLOBAL AUTOMATION PARTNER

## 6DL1134-6UD00-0PK0

OFFICIAL DATASHEET & QUOTATION

- 100% New & Original Factory Sealed
- Global Express Shipping (DHL/FedEx/UPS)
- 12-Month Warranty Protection
- Professional Technical Support

[CHECK STOCK & PRICE](#)



Need Assistance? Scan to Chat on WhatsApp

sales@turl.com | +852 6339 7344