

Siemens
EcoTech



SIMATIC ET 200SP HA, digital input module, DI 8x24 ... 125VDC HA suitable for terminal block K0, color code CC42, channel diagnostics

General information	
Product type designation	DI 8x24 ... 125 V DC HA
Firmware version	V1.0
<ul style="list-style-type: none"> FW update possible 	Yes
Usable terminal block	type K0 (see system manual for details)
Color code for module-specific color-coded label	CC42
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version 	V16
<ul style="list-style-type: none"> STEP 7 configurable/integrated from version 	V5.6
<ul style="list-style-type: none"> PCS 7 configurable/integrated from version 	V9.0
<ul style="list-style-type: none"> PCS neo can be configured/integrated from version 	V3.0
<ul style="list-style-type: none"> PROFINET from GSD version/GSD revision 	GSDML V2.3
Operating mode	
<ul style="list-style-type: none"> DI 	Yes
<ul style="list-style-type: none"> Counter 	No
<ul style="list-style-type: none"> Oversampling 	No
<ul style="list-style-type: none"> MSI 	No
Redundancy	
<ul style="list-style-type: none"> Redundancy capability 	No
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)	16 mA
Current consumption, max.	20 mA
Power loss	
Power loss, typ.	3.75 W
Address area	
Address space per module	
<ul style="list-style-type: none"> Address space per module, max. 	1 byte; + 1 byte for QI information
Digital inputs	
Number of digital inputs	8

Sourcing/sinking input	Yes; P-reading	
Input characteristic curve in accordance with IEC 61131, type 1	Yes	
Input characteristic curve in accordance with IEC 61131, type 3	Yes	
Time stamp	Yes; Resolution 10 ms	
Time stamp (with precision of 1 ms)	Yes; Resolution 1ms	
Input voltage		
<ul style="list-style-type: none"> • for signal "0" • for signal "1" 	-125 ... +5 V +11 ... +125 V	
Input current		
<ul style="list-style-type: none"> • for signal "1", typ. 	3.1 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
— parameterizable	Yes; 0.05 / 0.1 / 0.4 / 0.8 / 1.6 / 3.2 / 12.8 / 20 ms (in each case + delay of 30 to 500 µs, depending on line length)	
Cable length		
<ul style="list-style-type: none"> • shielded, max. • unshielded, max. 	1 000 m 600 m	
Encoder		
Connectable encoders		
<ul style="list-style-type: none"> • 2-wire sensor — permissible quiescent current (2-wire sensor), max. 	Yes 1.5 mA	
Interrupts/diagnostics/status information		
Alarms		
<ul style="list-style-type: none"> • Diagnostic alarm • Hardware interrupt 	Yes Yes; Parameterizable, channels 0 to 7, rising/falling edge	
Diagnoses		
<ul style="list-style-type: none"> • Diagnostic information readable • Monitoring the supply voltage • Wire break • Group error 	Yes Yes Yes; channel by channel Yes	
Diagnostics indication LED		
<ul style="list-style-type: none"> • MAINT LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics 	Yes; Yellow LED Yes; green PWR LED Yes; green LED Yes; red LED Yes; green/red DIAG LED	
Potential separation		
Potential separation channels		
<ul style="list-style-type: none"> • between the channels • between the channels and backplane bus 	No Yes	
Permissible potential difference		
between different circuits	250 V AC/300 V DC	
Isolation		
Isolation tested with	3 500 V DC/1 min, type test	
Ambient conditions		
Ambient temperature during operation		
<ul style="list-style-type: none"> • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. 	-40 °C 70 °C -40 °C 60 °C	
Dimensions		
Width	22.5 mm	
Height	115 mm	
Depth	138 mm	
Weights		
Weight, approx.	165 g	
Classifications		
	Version	Classification

eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599

Approvals / Certificates

General Product Approval



[Miscellaneous](#)



[Declaration of Conformity](#)



General Product Approval

For use in hazardous locations



[Declaration of Conformity](#)



For use in hazardous locations

Maritime application



[Miscellaneous](#)



Maritime application

Environment

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)



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