

SIMATIC IoT2000 input/output module, 5x DI 2x AI 2x DQ, ARDUINO Shield for SIMATIC IoT2040 and IoT2050



General information	
Product type designation	IOT2000
Installation type/mounting	
Mounting	On Arduino interface
Design	Plug-in card
Supply voltage	
Type of supply voltage	24 V DC
Digital inputs	
Number of digital inputs	5
Input voltage	
• Type of input voltage	DC
• for signal "0"	< 5 V DC
• for signal "1"	> 12 V DC
Input current	
• for signal "0", max. (permissible quiescent current)	0.9 mA
• for signal "1", typ.	2.1 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	1.5 ms
— at "1" to "0", max.	1.5 ms
Digital outputs	
Type of digital output	transistor
Number of digital outputs	2
Short-circuit protection	Yes
Output voltage	
• Type of output voltage	DC
• permissible voltage at output, min.	0 V
• permissible voltage at output, max.	28.8 V
Output current	
• for signal "1" rated value	0.3 A
Parallel switching of two outputs	
• for uprating	No
Switching frequency	
• with resistive load, max.	10 Hz
• with inductive load, max.	0.5 Hz
Analog inputs	
Number of analog inputs	2
Input ranges	
• Voltage	Yes; 0 to 10V

• Current • Thermocouple • Resistance thermometer • Resistance	Yes; 0 to 20 mA No No No																																													
Input ranges (rated values), voltages																																														
• 0 to +10 V	Yes																																													
Input ranges (rated values), currents																																														
• 0 to 20 mA	Yes																																													
Analog value generation for the inputs																																														
Integration and conversion time/resolution per channel																																														
• Resolution with overrange (bit including sign), max.	9 bit																																													
Interrupts/diagnostics/status information																																														
LED status display	No																																													
Integrated Functions																																														
Monitoring functions																																														
• Temperature monitoring • Fan	No No																																													
Degree and class of protection																																														
IP (at the front)	n.a.																																													
Standards, approvals, certificates																																														
CE mark	Yes																																													
UL approval	Yes																																													
cULus	Yes																																													
KC approval	Yes; For use inside SIMATIC IoT2040																																													
Ambient conditions																																														
Ambient temperature during operation																																														
• min. • max.	0 °C 50 °C																																													
Vibrations																																														
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s²																																													
Operating systems																																														
without operating system	Yes																																													
Dimensions																																														
Width	75 mm																																													
Height	57 mm																																													
Depth	32 mm																																													
Classifications																																														
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[Manufacturer Declaration](#)



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