

# I/O Systems - SDev Series I/O

## ABB Ability™ Symphony® Plus Hardware Selector

SDev (Symphony DIN) Series I/O is a Symphony Plus flexible and modular I/O offering that works across the entire control landscape regardless of application type, size, or physical location. It includes traditional analog, HART, and digital modules as well as turbine specific modules for integrated turbine control solutions.

The SDev Series I/O product family includes DIN Rail horizontally or vertically mounted digital and analog modules, as well as integration with intelligent field devices and protocols. Hardwire I/O and Fieldbus I/O coexist and use the same function block library to build real-time control applications.

Traditional SDev Series analog input modules interface with field inputs such as pressure and flow transmitter signals, thermocouple inputs, and resistive temperature device (RTD) inputs. Analog output modules provide output signals to adjust final control elements such as control valves, positioners, actuators, etc. SDev Series digital input modules have input channels to read the states of switches, relay contacts, solenoids, etc. Digital output modules provide output channels for DC or AC switching applications.

The digital outputs can be used to drive annunciators and drive two-state final control elements such as actuators, relays, and solenoids. For SDev Series Digital I/O, each channel can be individually configured as an SOE (Sequence of Events) point. This flexibility removes the cost and complexity of assigning additional digital inputs as SOE in the field. SOE with a 1 msec timestamp is available across the entire system, whether the I/O is local or remotely located.

Below is an outline of the range of different SDev I/O modules available.



| Specific feature <sup>1</sup>        | AI12ev   | AO02ev   | DI06ev   | DO01ev  |
|--------------------------------------|--|--|--|---|
| <b>General info</b>                  |  |  |  |   |
| Article number                       | 7PAA004001R11  | 7PAA004003R11  | 7PAA004004R11  | 7PAA004005R11   |
| Type                                 | Analog Input   | Analog Output  | Universal Digital Input  | Transistor Digital Output   |
| Signal specification                 | 4...20 mA, 0...+1 VDC, 1...+5 VDC, -10...+10 VDC                           | 4...20 mA, 1...+5 VDC  | 24/48/110/125 VDC, 100/120 VAC   | max 250 mA @ 24-48 VDC  |
| Life cycle status                    | ACTIVE   |  |  |   |
| Number of channels                   | 15   | 16   |  |   |
| Signal type                          | High Level AI  | High Level AO  | Universal DI   | Transistor DO   |
| HART                                 | No   |  |  |   |
| SOE                                  | No   |  | Yes  | No  |
| Redundancy                           | No   |  |  |   |
| Form factor                          | HR MMU   |  |  |   |
| Mounting                             | MMU (1-Slot)   |  |  |   |
| MTBF (per MIL-HDBK-217-FN2)          | PR: A = 146,733 Hours @ 30 °C; 109,094 Hours @ 40 °C; 43,780 Hours @ 70 °C | PR: A = 141,385 Hours @ 30 °C, 107,666 Hours @ 40 °C, 44,605 Hours @ 70 °C | PR: A = 181,071 Hours @ 30 °C, 149,154 Hours @ 40 °C, 77,381 Hours @ 70 °C | PR: A = 210,256 Hours @ 30 °C, 166,073 Hours @ 40 °C, 111,541 Hours @ 70 °C |
| MTTR (Hours)                         | 8 Hours  |  |  |   |
| <b>Dimensions</b>                    |  |  |  |   |
| Width                                | 35.6 mm (1.40 inch)  |  |  |   |
| Depth                                | 177.8 mm (7.0 inch)  |  |  |   |
| Height                               | 298.5 mm (11.75 inch)  |  |  |   |
| Weight                               | 414 g (14.6 oz.)   | 412 g (14.5 oz.)   | 420 g (14.8 oz.)   | 402 g (14.2 oz.)  |
| <b>Environment and certification</b> |  |  |  |   |
| RoHS compliance                      | RoHS Directive 2015/863  |  |  |   |
| WEEE compliance                      | DIRECTIVE/2012/19/EU   |  |  |   |

<sup>1</sup> For detailed information on each module, please visit: [symphonyplushardwareselector.automation.abb.com](https://symphonyplushardwareselector.automation.abb.com)

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[solutions.abb.com/symphonyplus](https://solutions.abb.com/symphonyplus)  
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