


# 21 Compact I/O Expansion models:

## Digital modules



**IO-DI8-T08**  
 24VDC  
 8 Digital Inputs, pnp/npn, including one High-speed Counter  
 8 pnp Transistor Outputs



**IO-R08**  
 24VDC (power supply)  
 8 Relay Outputs



**IO-DI8-R08** **NEW**  
 24VDC  
 8 Digital Inputs, pnp/npn, including one High-speed Counter  
 8 Relay Outputs




**IO-R016**  
 24VDC (power supply)  
 16 Relay Outputs



**IO-DI8-R04**  
 24VDC  
 8 Digital Inputs, pnp/npn, including one High-speed Counter  
 4 Relay Outputs



**EX90-DI8-R08<sup>2</sup>**  
 24VDC  
 8 Digital Inputs, pnp, including one High-speed Counter  
 8 Relay Outputs




**IO-DI16**  
 24VDC  
 16 Digital Inputs, pnp/npn, including one High-speed Counter



**IO-DI8ACH<sup>1</sup>** **NEW**  
 110/220 VAC  
 8 AC Inputs




**IO-T016**  
 12/24VDC  
 16 pnp Transistor Outputs



**EX-A1**  
 Expansion adapter. Used to link between the PLC and up to 8 expansion modules. Supports both 12/24VDC.


## Analog and Temperature measurement



**IO-AI4-A02**  
 24VDC (power supply)  
 4 Analog Inputs, 12 bit, 0-10V, 0-20mA, 4-20mA,  
 2 Analog Outputs, 12 bit + sign, 10V, 0-20mA, 4-20mA



**IO-A06X**  
 24VDC (power supply)  
 6 Isolated Analog Outputs, 0-10V, 0-20mA, 4-20mA  
 12 bit




**IO-PT4**  
 4 PT100 Inputs, Range: -50°C ÷ 460°C, (-58°F ÷ 860°F)  
 12 bit



**IO-ATC8**  
 8 Thermocouple/ Analog Inputs, T/C J, K, T, B, E, N, R, S, 0-1° Resolution, 0-10V, 0-20mA, 4-20mA, 12/14 bit

## Weight/Strain measurement

**IO-LC1<sup>3</sup>** **IO-LC3<sup>3</sup>**  
 12/24VDC (Power Supply)  
 1-3 Loadcell / Strain gauge Inputs  
 Input voltage ranges: ± 20mV, ± 80mV  
 Excitation: AC/DC  
 1 Digital pnp Input  
 2 Setpoint pnp Outputs

\*Not supported by all OPLCs™ (Note 3).

12VDC is supported by these models: IO-DI8-T08-L, IO-DI8-R04-L, IO-DI8-R08-L, IO-DI16-L, IO-R08L, IO-R016-L, IO-PT4 & IO-ATC8 support any voltage.

<sup>1</sup> The EX90 is housed in an open casing. Only one EX90 can be connected per PLC, as a single expansion module; EX-A1 adapter not required.

<sup>2</sup> IO-DI8ACH is not yet UL certified.

<sup>3</sup> IO-LCx models are currently supported by the M91 & Vision series; IO-LCx is not supported by the M90 series. IO-LCx is not yet UL certified.

