

Embedded Logic Engine and Expansion I/O

The C445 is designed to allow function block programming to increase the logic capability of the C445. This logic allows a user to continue the current process logic or use logic that is configured locally. The logic engine can access the control parameters and I/O of the C445. The logic engine will access external expansion I/O. The C445 allows digital input up to 64 and digital output up to 64, plus up to 8 analog I/O cards. The analog I/O includes thermal measurement input modules. The expansion I/O utilizes the Modbus 485 connection on the C445 and the ELC-CARS485 communications module to communicate to the expansion I/O.

The following Expansion Modules are available: Communication module ELC-CARS485 plus I/O modules.

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ELC-EX

**Embedded Logic Engine and Expansion I/O**

Power	Input Unit Point	Type	Output Unit Point	Type	Digital I/O Model
Dimensions W x H x D (mm): 25.2 x 90 x 60					
24 Vdc	8	120 Vac	0	—	ELC-EX08NNAN
	8	DC sink or source	0	—	ELC-EX08NNDN
	0		8	Relay	ELC-EX08NNNR
	0		8	Transistor	ELC-EX08NNNT
	0		6	High current relay	ELC-EX06NNNI
	4		4	Relay	ELC-EX08NNDR
	8		8		ELC-EX16NNDR
	4		4	Transistor	ELC-EX08NNDT
	8		8		ELC-EX16NNDT
Power	Input Unit Point	Type	Output Unit Point	Type	Analog I/O Model
Dimensions W x H x D (mm): 25.2 x 90 x 60					
24 Vdc	0	—	2	0 mA to +20 mA	ELC-AN02NANN
	0		4	0 V to +10 V	ELC-AN04NANN
	4	–20 mA to +20 mA	2		ELC-AN06AANN
	4	–10 V to +10 V	0	—	ELC-AN04ANNN
	4	Platinum temp.	0		ELC-PT04ANNN
	4	Thermocouple	0		ELC-TC04ANNN