Cartridges

What are Cartridges?

Cartridges are a way of increasing the capabilities of the M221 Logic Controller By adding more I/O or connection options. They are also targeted at specific applications such as conveying, hoisting and packaging. They are attached to the front of the M221 Logic controller and provide options that are not available in either the TM2 or TM3 I/O.



The M221 Book Controller is unable to accept cartridge expansion and can only use TM2 or TM3 expansion modules.

Types of Cartridge Cartridges allow additional analog I/O and communications options to be added to the M221 Logic Controller. The full list for step 2 is given below.

Cartridge	Function
TMCAI2	2 analog or current inputs
TMCAQ2C	2 current outputs
TMCAQ2V	2 voltage outputs
TMC2CONV01	Serial line for conveying applications
TMC2HOIS01	2 analog voltage or current inputs for hoisting load cell
TMC2PACK01	2 analog voltage or current inputs for packaging
TMC2SL1	1 serial line
TMC2TT2	2 analog temperature inputs

Cartridges (cont.)

Adding Cartridges Physically, the cartridge is plugged on to the front of the M221 Logic Controller. A single cartridge can be added to the TM221C16X, TM221CE16X, TM221C24X and TM221CE24X controllers.



Two cartridges can be added to the TM221C40X or TM221CE40X controllers.



Configuring in SoMachine Basic

The cartridges are in the SoMachine Basic Library and can be added the same way as I/O modules.

> M	M221 Logic Controllers				
> т	TM3 Digital I/O Modules				
> т	TM3 Analog I/O Modules				
> т					
> т					
TM3 Expert I/O Modules					
 M221 Cartridges 					
Refe	erence	Type	Features		
<u> </u>					
ТМ	IC2AI2	Analog	2 voltage or cu		
	IC2AI2	Analog Analog	2 voltage or cu 2 current outp		
TM					
TM TM	IC2AQ2C	Analog	2 current outp		
TM TM TM	IC2AQ2C IC2AQ2V	Analog Analog	2 current outp 2 voltage outp		
TM TM TM TM	IC2AQ2C IC2AQ2V IC2CONV01	Analog Analog Serial line	2 current outp 2 voltage outp Conveying app		
TM TM TM TM TM	IC2AQ2C IC2AQ2V IC2CONV01 IC2HOI501	Analog Analog Serial line Analog	2 current outp 2 voltage outp Conveying app Hoisting applic Packaging app		
TM TM TM TM TM	IC2AQ2C IC2AQ2V IC2CONV01 IC2HOIS01 IC2PACK01	Analog Analog Serial line Analog Analog	2 current outp 2 voltage outp Conveying app Hoisting applic Packaging app		

Select the cartridge and drag it on to the M221 Logic Controller.