

16 24Vdc Sourcing Output Channels Each Channel Current Limited

Introduction

The 400-16QDC module provides 16 +24Vdc (nominal) sourcing output channels for use within the FMT-400 modular system. A maximum of 128 digital output channels (eight 400-32QDC modules) in main rack are supported by the CPU-400A, 256 digital output channels (sixteen 400-32QDC modules) in main or extension racks are supported by the CPU-400B and 1024 digital output channels (sixty four 400-32QDC modules) in main or extension racks are supported by the CPU-400C.

(Please see separate data sheet for more information on the CPU modules).
Each channel is automatically current limited and is short circuit protected.

General Specifications

Storage temperature	-20 to +70 °C
Operating temperature	0 to 55 °C
Humidity	0-90%
Weight	490g
Dimensions	Standard FMT-400 size single width module
Spring terminal wire gauge	0.2 to 1.5mm csa (24 to 14 AWG)
Current consumed from rack	180mA from rack power supply
Digital Output Type	16 sourcing PNP opto isolated digital outputs
Digital Output Rating	Each channel approximately 500 mA @ 24VDC
Digital Output External Power Supply	24Vdc (+/- 20%)
Channel Protection	Each channel individually protected for short circuit and thermal overload.
Inductive Load Protection	Each channel individually protected. Maximum inductive load switch-off energy dissipation is 5mJ.

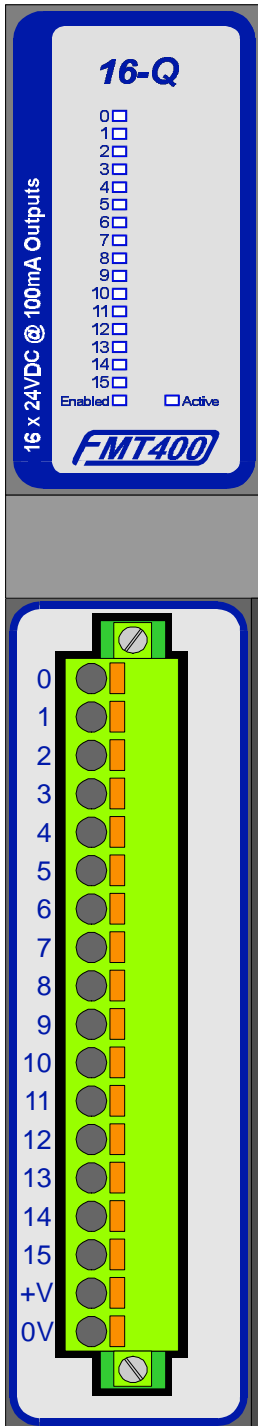


Connection Details

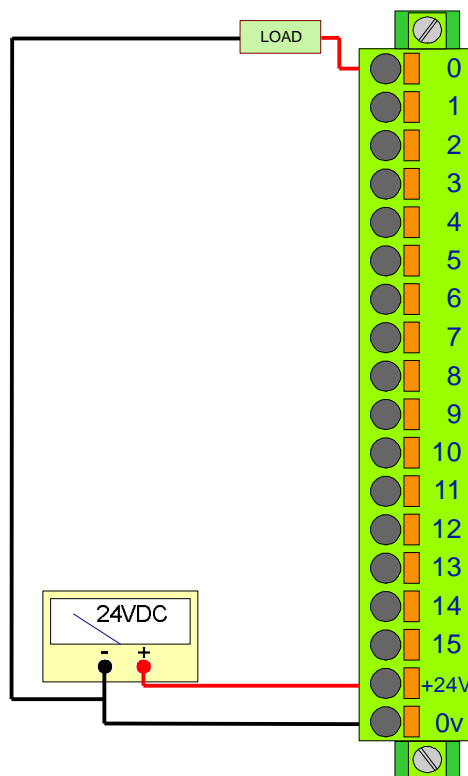
Connections should be made to the 400-16QDC connector as shown in the following diagram.

The user's +24Vdc should be connected to the +24Vdc connection and 0v to at the 0V connection, the load on each output should be connected between the output and the user's 0v.

To insert wires into connector apply downwards pressure on orange tab using a small screwdriver or similar, insert wire then release pressure, the wire will be gripped firmly.



Connections should be to the output card as shown below:





Output Ratings

<u>Outputs</u>	<u>Nominal Rating</u>	<u>Notes</u>
Q0 - Q15	500mA @ +24Vdc	The outputs are nominally rated at 500mA maximum continuous current output. The outputs are overload protected at a typical 1500mA overload current.

LED Descriptions

<u>Label</u>	<u>Colour</u>	<u>Description</u>
0 to 15	Red	Indicates status of the digital output. When illuminated the output is turned on.
Enabled	Yellow	When illuminated shows that the module has been correctly set up within your project in Flex32 and that the CPU module has initialised the module. If not illuminated then the module may not have been set up in your project configuration.
Active	Yellow	Indicates activity within the module, this will normally flicker or appear to be constantly illuminated, activity occurs when the CPU module is writing data to the 400-16QDC.



Data Sheet Issue: PROVISIONAL
Date: October 2000

Order Codes

Part Number
400-16QDC

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