Isolated Digital Outputs

24VDC Out, Positive Logic
HE800DQM306 (16 Outputs) /
HE800DQM406 (32 Outputs)

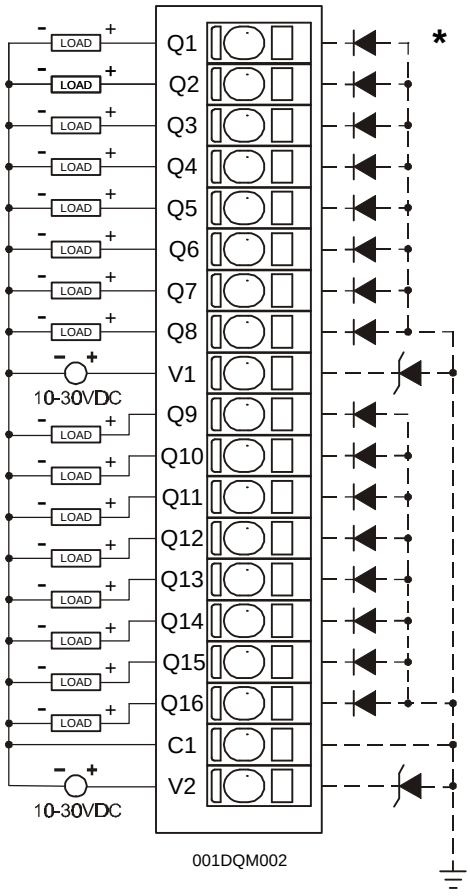
1 SPECIFICATIONS

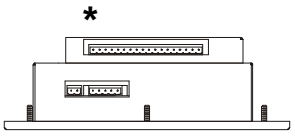
OUTPUT	DIQ306	DIQ406		DIQ306	DIQ406
Outputs per Module	16	32	Maximum Inrush Current per channel	650mA	
Commons per Module	1	2	Minimum Load	None	
Operating Voltage	10 - 30VDC		OFF to ON Response	1ms.	
Output Type	Sourcing / 10K Pull-Down		ON to OFF Response	1ms.	
Peak Voltage	28VDC Max.		Output Characteristics	Current Sourcing	
Maximum Load Current per channel	0.5A Max. per output		Output Protection	Short Circuit	

General Specifications			
Required Power (Steady State)	0.12W (5mA @ 24VDC)	CE	SUP0259
Required Power (Inrush)	Negligible	UL	MAN0005
Relative Humidity	5 to 95% Non-condensing	Terminal Type	Spring Clamp, Removable
Operating Temperature	0° to 60° Celsius	Weight	9 oz. (256 g)

2 WIRING

2.1 Bottom Connector (Used by DQM306 and DQM406)



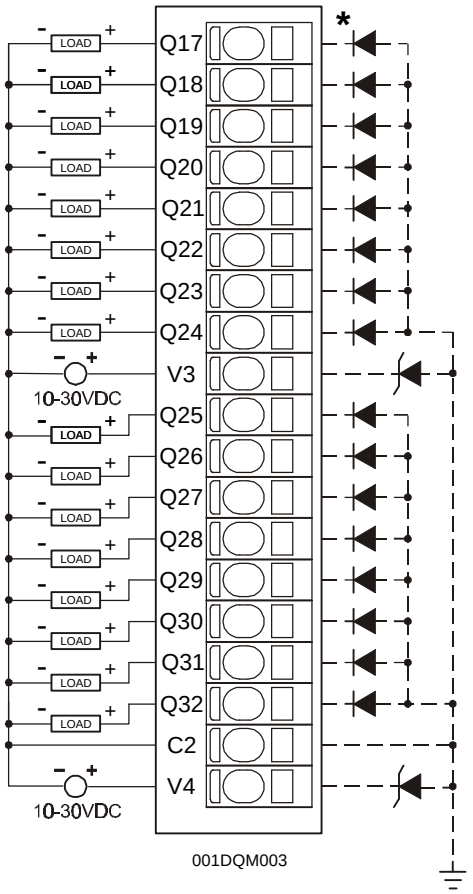


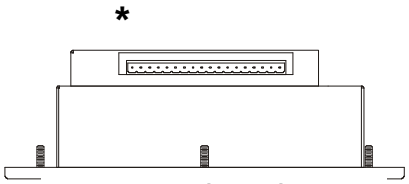
OCS Bottom View – Shows Corresponding I/O Pin

Pin	Signal DQM306/406 OUTPUT
Q1	Output 1
Q2	Output 2
Q3	Output 3
Q4	Output 4
Q5	Output 5
Q6	Output 6
Q7	Output 7
Q8	Output 8
V1	Load Power 1
Q9	Output 9
Q10	Output 10
Q11	Output 11
Q12	Output 12
Q13	Output 13
Q14	Output 14
Q15	Output 15
Q16	Output 16
C1	Common 1 (Isolated)
V2	Load Power 2

Load Power	Outputs
1	1-8
2	9-16

2.2 Top Connector (Used by DQM406 only)



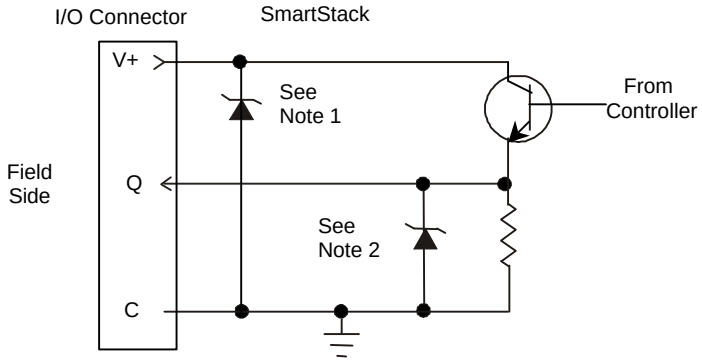


OCS Top View – Shows Corresponding I/O Pin

Pin	Signal DQM406 OUTPUT
Q17	Output 17
Q18	Output 18
Q19	Output 19
Q20	Output 20
Q21	Output 21
Q22	Output 22
Q23	Output 23
Q24	Output 24
V3	Load Power 3
Q25	Output 25
Q26	Output 26
Q27	Output 27
Q28	Output 28
Q29	Output 29
Q30	Output 30
Q31	Output 31
Q32	Output 32
C2	Common 1 (Isolated)
V4	Load Power 4

Load Power	Outputs
3	17-24
4	25-32

3 INTERNAL WIRING



Note 1: Specification for transient voltage suppressors (transorbs) used on output circuitry is 36V, 300W.
Note 2: Specification for transient voltage suppressors (transorbs) used on output circuitry is 33V, 300W.

4 CONFIGURATION

Note: The status of the I/O can be monitored in Cscape Software.

Preliminary configuration procedures that are applicable to all SmartStack™ Modules are located in the Control Station Hardware Manual (MAN0227).

Selecting the **I/O Map** tab provides information about the I/O registers, which are assigned to a specific SmartStack™ Module and where the module is located in the point map. The I/O Map is determined by the model number and location within the SmartStack™. The I/O Map is not edited by the user.

The **Module Setup** is used in applications where it is necessary to change the default states of the outputs when the controller (e.g., OCS100) enters idle/stop mode. The default turns the outputs OFF when the controller enters idle/stop mode. By selecting the Module Setup tab, each output can be set to either turn ON, turn OFF or to hold the last state. Generally, most applications use the default settings.

Warning: The default turns the outputs OFF when the controller enters idle/stop mode. To avoid injury of personnel or damages to equipment, exercise extreme caution when changing the default setting using the **Module Setup** tab.

5 INSTALLATION / SAFETY

Warning: Remove power from the OCS controller, CAN port, and any peripheral equipment connected to this local system before adding or replacing this or any module.

a. All applicable codes and standards should be followed in the installation of this product.
b. Use the following wire type or equivalent: Belden 8917, 16 AWG or larger.

For detailed installation information, refer to Chapter Two in the Control Station Hardware Manual. A handy checklist is provided that covers panel box layout requirements and minimum clearances.

6 TECHNICAL ASSISTANCE

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(317) 916-4274 or visit our website at www.heapg.com.

Europe:

(+) 353-21-4321-266

NOTES