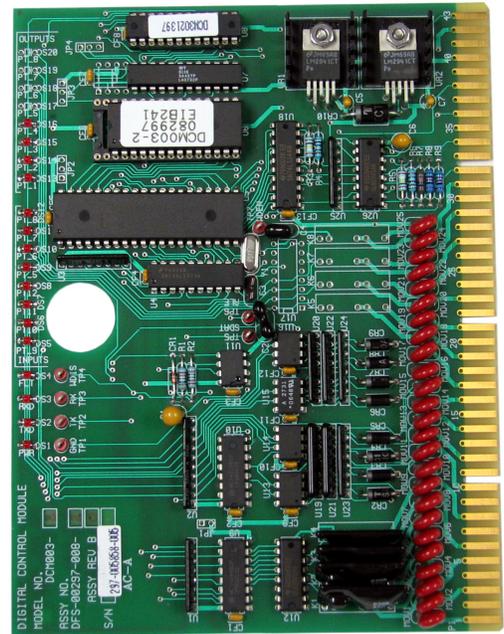

DIGITAL CONTROL MODULE

DESIGNED FOR USE WITH THE 200 SERIES RTU FAMILY, DFS RTU MODULES ARE ASSEMBLED FROM THE HIGHEST QUALITY COMPONENTS AND DESIGNED TO MAXIMIZE USABILITY WHILE MINIMIZING INSTALLATION, MAINTENANCE, AND DOWNTIME.

The Digital Control Module (DCM) is a microprocessor-controlled multiple input/output module. The DCM provides remote control in either a 4-output/8-input or 8-output/4-input hardware configuration. Within these two basic configurations, the module is subclassified by output type - AC, DC and mechanical (dry contact).

The control relays are available as solid state or mechanical relay contacts. All inputs have surge protection and opto-isolators to increase protection. Status reporting of the input points has an accuracy of two (2) seconds.

The DCM is capable of monitoring pulse inputs such as those produced by a tipping bucket rain gauge. Up to four (4) digital inputs on the DCM003-1, -3, and -5 and up to eight (8) digital inputs on the DCM003-2, -4, and -6 can be configured to accept pulse inputs.



FEATURES AT A GLANCE

- Available in both 4-input/8-output and 8-input/4-output versions
- Opto-isolated input / output points
- Inputs can be configured to accept pulse inputs
- Outputs may be solid-state or mechanical relay
- 1200 or 9600 baud communication
- Time-tagged messages
- On-board communications and functional firmware
- On-board voltage regulation
- LEDs for power, receive data, transmit data, status of each input/output, and CPU fault
- Surge protected (nondestructive)
- Removable without disturbing field wiring
- No on-board adjustments, switches or straps (self configuring)
- Keyed to prevent damage

SPECIFICATIONS

Model	DCM003*
Board Size	5.25" x 6.88"
Outputs (DCM003-1, -2)	1 Amp, 24-280 VAC
Outputs (DCM003-3, -4)	1.5 Amp up to 60 VDC; 1 Amp up to 280 VAC
Outputs (DCM003-5, -6)	1 Amp, 3-60 VDC
Output Protection	M.O.V. and Opto-isolated
Input Voltages (each)	10-30 VAC/VDC; 31-300 VAC/VDC with inline resistors
Input Protection	M.O.V., Transorb, and Opto isolated
Input Impedance	6K Ohm
Power Requirements	8-14 VDC, 165 mA
Minimum Pulse Width	20 ms
Maximum Burst Frequency	25 PPS
Maximum Continuous Frequency	8 PPS
LEDs	Power, receive data, transmit data, input/output status, CPU fault

MODELS AVAILABLE

DCM003-1	4 inputs, 8 outputs AC, solid state relays
DCM003-2	8 inputs, 4 outputs AC, solid state relays
DCM003-3	4 inputs, 8 outputs AC/DC, mechanical relays
DCM003-4	8 inputs, 4 outputs AC/DC, mechanical relays
DCM003-5	4 inputs, 8 outputs DC, solid state relays
DCM003-6	8 inputs, 4 outputs DC, solid state relays

TYPICAL APPLICATIONS

- Pump Control
- Valve Control
- Gate Control
- Clarifier Rake Control
- Aerator Control
- Generator Control
- Blower Control
- Remote Status Indication
- Pump Disable
- Station Disable
- Bar Screen Control
- Conveyor System Control
- Grit Auger Control
- Exhaust Fan Control
- Headworks Grit Cycle Control

WARRANTY

This product carries a one (1) year return-to-factory warranty against defects in material and workmanship. When installed with factory recommended surge protection, the return-to-factory warranty is extended to three (3) years. The extended warranty also covers damage due to lightning and surge for the entire three-year period when installed per factory-approved requirements. DFS will repair or replace at its option, F.O.B. Melbourne, Florida, any part or parts of this product during the warranty period. A Return Authorization (RA) must be obtained by contacting the DFS Factory Repair Center at 321-259-5009 or by email at rma@dataflowsys.com.

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