



MDi Controls provides products and engineering services to the Compressed Natural Gas (CNG) vehicle fuel industry.

MDi Controls manufactures state-of-the-art, stand alone controllers that are capable of controlling compressors, motor or engine drives, priority/sequential valve panels, and CNG dispensers. MDi controllers are designed to function as stand-alone controllers for a particular piece of equipment, or as controllers for an entire CNG compressor/dispenser system. Priority/sequential controllers utilize a mass-based algorithm that uses ambient temperature, vehicle mass capacity and heat of compression to achieve the quickest, most efficient CNG vehicle fill. The MDi SCADA system links controllers via MODBUS RTU protocol to a PC based master controller. All controller parameters can be monitored on the PC using color graphic screens. Real time data and historical trending are available for planned maintenance and supervisory control.

MDi controllers were designed specifically for the CNG market with programming that is user friendly with multiple set points available to optimize operation at a given site. Programs are compatible with various compressors and either electric motor or engine drive. In addition, controls are available for electronic priority cascade of buffer fill and sequential vehicle fill.

All of MDi controllers are FM and CSA approved for Class 1 Division 2 Group C or D hazardous locations and also comply with NFPA 52.

The customer may choose to use MDi Controls standard in-house controllers, or may specify PLC based systems.

MDi Controls products and engineering services are used in both new site construction and in upgrading existing sites.

MDI CONTROLS PRODUCTS INCLUDE CONTROLLERS FOR:

- Single Compressor Motor Drive, Basic QMC1
- Single Compressor Motor Drive QPC1-M
- Single Compressor Engine Drive QPC1-E
- PLC Based Engine Drive Controller PLC-QPC1-E
- Dual/Tandem Compressor Motor Drive QMC2
- Priority/Sequential Control
 - 2 Fast Fill, 1 Slow Fill QPS2
 - 4 Fast Fill, 2 Slow Fill QPS4
- Buffer Fill/Vehicle Fill
 - 2 Fast Fill, 1 Slow Fill QB2
 - 4 Fast Fill, 2 Slow Fill QB4
- PLC Based controls per customer specification
- Valve Panels
 - Priority/Sequential
 - Buffer/Vehicle Fill
- Full range of options and accessories

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