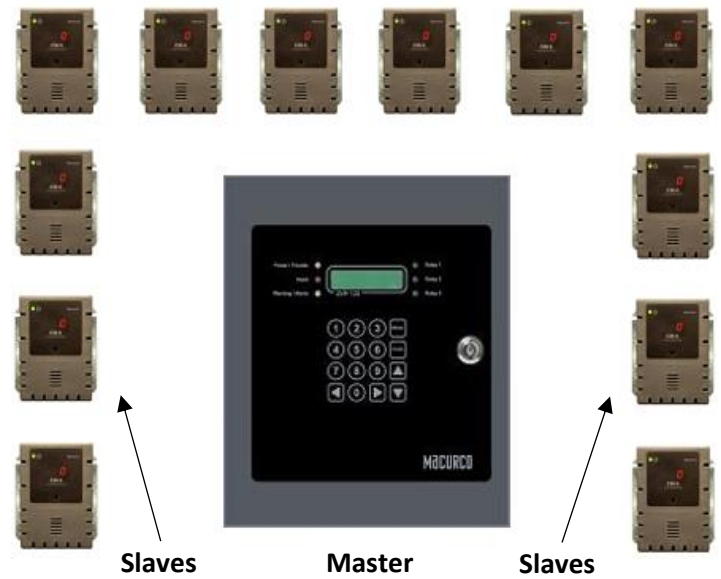




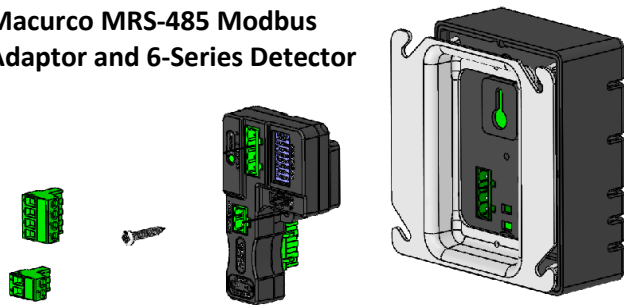
**Monthly Topic: Macurco Addressable Controller**

Modbus is a commonly used communications protocol. Communications devices must agree on many aspects of the data to be exchanged before successful transmission can occur. Communication protocols are formal descriptions of digital message formats and rules. They are required to exchange messages in or between computing systems. Modbus communicates using a master-slave system, in which only one device (master) initiates queries. The other devices (slaves) respond by supplying the requested data to the master, or by taking the action requested in the query. The master can address individual slaves, or can initiate a broadcast message to all slaves. Slaves return a message (response) to queries that are addressed to them individually.



The Macurco DVP-120M is an addressable detection and ventilation control panel that provides automatic control to help maintain an acceptable environment in parking garages or other facilities. The DVP-120M (master) can control up to 87 addressable gas detectors (slaves). Using the Macurco MRS-485 adaptor, Macurco 6-Series detectors communicate with the DVP-120M using a digital, Modbus signal.

Macurco MRS-485 Modbus Adaptor and 6-Series Detector



A unique address created for each of the gas detectors by using an 8 bit DIP switch on the MRS-485 adaptor. The MRS-485 adaptors are wired in series, sometimes called a daisy-chain, using shielded 3-conductor wire with one twisted pair providing a pair for signal (A & B), common (COM) and shield ground (SHD) connections.

**Macurco Gas Products**

- [DVP-120M](#)
- [MRS-485](#)
- [CM-6](#)
- [TX-6-ND](#)

**Macurco Literature**

- [Quick Reference](#)
- [Product Brochure](#)
- [Parking Garage Guide](#)
- [Gas & Product Training](#)

**Learn More**

- [Modicon Modbus Protocol](#)
- [Modbus.org](#)
- [DVP-120M Manual](#)
- [MRS-485 Manual](#)

**Common Applications**

- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>✓ Parking Garages</li> <li>✓ Food Processing</li> <li>✓ Office Buildings</li> <li>✓ Restaurants</li> <li>✓ Oil &amp; Gas</li> <li>✓ Maintenance Facility</li> </ul> | <ul style="list-style-type: none"> <li>✓ Vehicle Repair Facility</li> <li>✓ Chemical Plants</li> <li>✓ Bus Depots</li> <li>✓ Battery Charging Stations</li> <li>✓ Manufacturing Plants</li> <li>✓ Boiler Rooms</li> </ul> | <ul style="list-style-type: none"> <li>✓ Power Plants</li> <li>✓ Food &amp; Beverage</li> <li>✓ Schools</li> <li>✓ Wastewater Treatment</li> <li>✓ Pharmaceuticals</li> <li>✓ Retail</li> </ul> |
|--|---|---|

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 Questions or Comments? Email [info@aerionicsinc.com](mailto:info@aerionicsinc.com) or Call 877-367-7891  
 Aerionics Inc. 3601 N. St Paul Ave Sioux Falls, SD 57104  
 To unsubscribe from future Technical Newsletters email [info@aerionicsinc.com](mailto:info@aerionicsinc.com)

