

# MegaLink™ Remote VMB Control Systems

- » Economical
- » Flexible design
- » SEMI S2-93 reviewed
- » UL Listed control panels



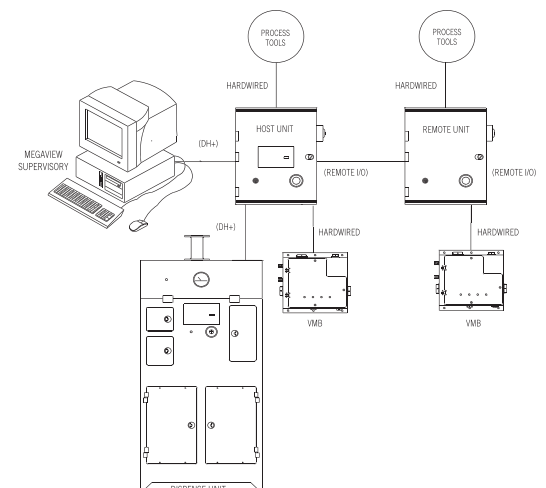
## System Features

The MegaLink system is engineered to provide control and status interfacing between the Process Tool, Dispense Unit and Valve Manifold Boxes (VMBs). The Tool Interface connections provide Process Tool and Dispense Unit status signals, while the VMB connections allow control of the VMB automatic valves and monitoring of the VMB status. Additional connections are available for an optional light tower and optional customer specified signals. The MegaLink system's flexible design provides a solution for a customer's specific layout requirements. It is available in modular Host and Remote configurations.

One Host 120 unit can support up to four Remote 120 units, for a maximum of 60 VMBs and 120 chemical valves or 60 slurry valves with automatic DI flush. Other combinations of Remote 60 and Remote 120 units may be used, not to exceed the above maximums. If requirements exceed the above maximums, an additional Host unit may be added. One Host 60 can also support up to four Remote 120 units, to a maximum of 54 VMBs and 96 chemical valves or 48 slurry valves with automatic DI flush.

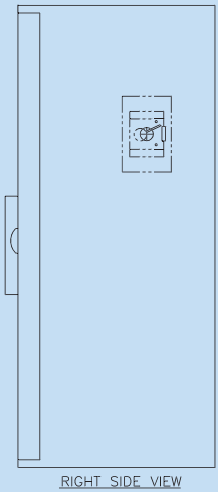
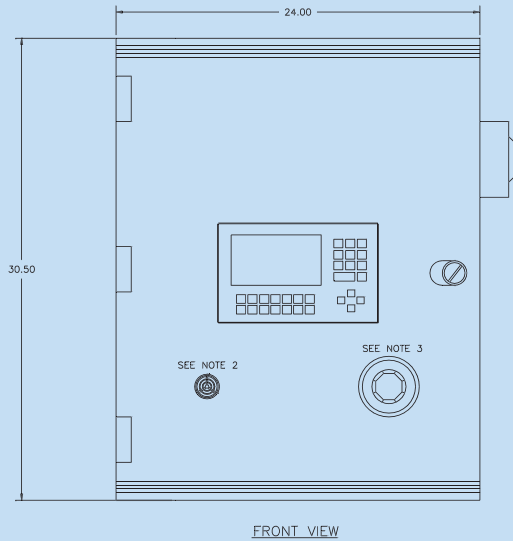
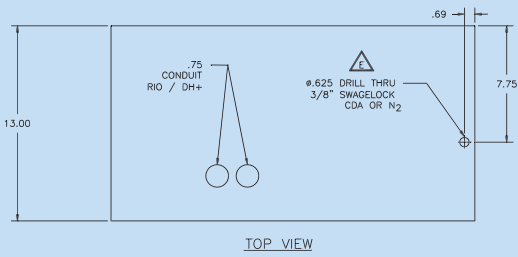
All signals between the MegaLink and Process Tools are connected with isolation relays. For signals from the MegaLink, a dry contact is provided. For signals to the MegaLink, a 24VDC relay coil is provided.

- Electro-pneumatic solenoids for valve control
- Chemical safety shutdown (CSS) button
- Terminal blocks for interface signal termination



## Options

- Low point leak detection
- pH and specific gravity indication (slurry only)
- Point-of-use timers
- Cover switch bypass
- Light tower
- Operator interface (DH+) for Remote60 or Remote120
- CE Mark 220V, 50 Hz



## Controls

- Allen-Bradley SLC 500 series PLC
- Allen-Bradley Panelview™ 500 operator interface
  - VMB leak detect and cover switch alarms
  - Low system N2 pressure warning
  - Chemical/Slurry available signals to Process Tools (dry contact)
  - Slurry low signals to Process Tools (dry contact)
  - Chemical/Slurry demand from Process Tools (24 VDC isolation relay coil)
  - Automatic DI flush for slurry systems
  - Password protected maintenance screens
  - Manual activation of valves
- Connectivity to system PLCs & MegaView™ Supervisory System via Allen-Bradley DH+ or ethernet network
- Connectivity to Remote 60 & 120 via Allen-Bradley Remote I/O network

Facility requirements	Host/Remote	Connection Type
CDA	n/a	3/8" Swagelok
Power	120 VAC 15 AMP service	3/4" Conduit
RIO	n/a	3/4" Conduit
DH+	n/a	3/4" Conduit
Cabinet Materials	NEMA 4x	n/a
Footprint	24" x 13" x 30.5"	n/a

Equipment Set	Host 60	Host 120	Remote 60	Remote 120
Maximum No. of Dispense Units	16	16	-	-
Maximum No. of Valve Boxes	6	12	6	12
Maximum No. of Valve Boxes	12	24	12	24
VMB "Stick" Count				
Chemical - Single AV	12	24	12	24
Slurry - Manual DI	12	24	12	24
Slurry - Auto DI	6	12	6	12

## Components

- Hoffman NEMA 4x-rated control box
- Isolation relays (dry contact) for chemical available
- Isolation relays (dry contact) for slurry available signals
- Isolation relays (dry contact) for slurry low signals
- Isolation relays (24VDC coils) for chemical/slurry & DI demand signals



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