**S**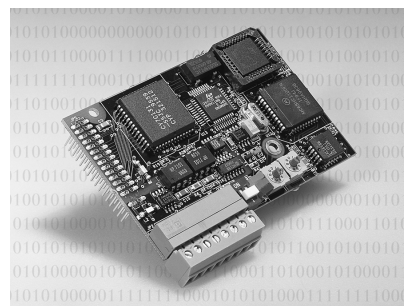martLinx® modules provide direct digital connection to popular industrial communications buses and telephone lines with true plug-and-play compatibility with Siemens Milltronics products.

They're fast and easy to install, and can be added at any time. The module simply plugs into the socket on any SmartLinx-enabled Milltronics product. They require no secondary private buses or gateways and no separate wiring. There are no extra boxes to connect to your network so there's a minimum load on engineering and maintenance staff.

SmartLinx provides all data from the instrument, including measurement and status, and allows changes to operation parameters to be done over the bus or telemetry link. The user can select which data in the application layer to transfer over the bus. This selection saves bandwidth and memory, and optimizes data throughput and speeds up the network, enabling you to connect more instruments to your network.



## Product Features
• Fast and easy installation
• Direct connection: requires no additional boxes and wiring
• Scaleable application layer allows for optimized network bandwidth and memory requirements
• Modules available for Profibus-DP, Allen-Bradley Remote I/O, Modbus RTU and DeviceNet, and a modem that supports telephone line connections for North American and European installations only

# *Technical Specifications*

## SmartLinx Specifications

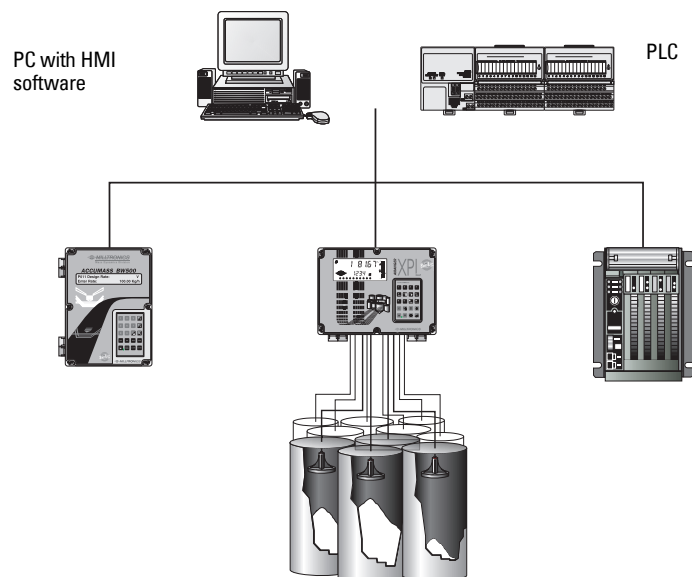| SmartLinx Module | Interface | Baud Rate | Address | Type of Connection |
|---|---|---|---|---|
| Allen-Bradley Remote I/O | RIO interface | 57.6, 115.2 or 230.4 Kbaud | Rack address 1 to 73, 1/4 to full rack | RIO slave |
| Profibus-DP | RS-485 (Profibus standard) | All valid Profibus-DP rates from 9600 Kbps to 12 Mbps | 0 to 99 | Slave |
| Modbus RTU | RS-232 or RS-485 | 1200, 2400, 4800, 9600, 19200, 38400 bps | 1 to 247 | Slave |
| DeviceNet | DeviceNet physical layer | 125, 250, 500 kpbs | 0 to 63 | Slave (group 2) |
| Modem – Modbus RTU | RJ-11 to phone line | 1200, 2400, 4800, 9600, 14400 bps | 1 to 247 | Slave |

## SmartLinx Module Compatibility

| | Allen-Bradley Remote I/O | Profibus-DP | Modbus RTU | DeviceNet | Modem |
|---|---|---|---|---|---|
| AiRanger SPL / SITRANS LU 01 | Yes | Yes | Yes | Yes | Yes |
| AiRanger DPL / SITRANS LU 02 | Yes | Yes | Yes | Yes | Yes |
| AiRanger XPL Plus / SITRANS LU 10 | Yes | Yes | Yes | Yes | Yes |
| InterRanger DPS 300 | Yes | Yes | Yes | Yes | External Modem Kit |
| EnviroRanger ERS 500 (Wall Mount) | Yes | Yes | included with product | Yes | External Modem Kit |
| EnviroRanger ERS 500 (Rack and Panel Mount) | Yes | Yes | included with product | Yes | External Modem Kit |
| Accumass BW500 | Yes | Yes | included with product | Yes | External Modem Kit |
| Accumass SF500 | Yes | Yes | included with product | Yes | External Modem Kit |
| MultiRanger 100 | Yes | Yes | included with product | Yes | External Modem Kit |
| MultiRanger 200 | Yes | Yes | included with product | Yes | External Modem Kit |
| HydroRanger 200 | Yes | Yes | included with product | Yes | External Modem Kit |

Other bus interfaces are planned; please contact your Siemens Milltronics representative for details.

# *Configurations*

### Local Industrial LAN

PC with HMI
software

PLC

### Telemetry

modem

Remote site

Host PC with HMI
software