

control solutions international

- ^ 26. Internet opens door to global enterprise SCADA system
- ^ 30. Conducting real-time continuous energy audits
- ^ 37. Guide to purge/pressurization systems

Applying I/O

^ 12. Special Report



{product feature}

Ethernet process control & distributed I/O network for demanding applications

Moore Industries' new NET Concentrator® System (NCS) provides 20-bit measurement resolution and advanced signal conditioning capabilities. Data rates up to 100 MB/s provide the speed needed for applications requiring real-time readings or control. Unit's DIN rail-mount metal



enclosure protects against RFI / EMI, vibration and shock; and complete channel-to-channel signal isolation eliminates the unpredictable effects of ground loops. In addition, the network will withstand wide ambient temperature extremes (-40°C to +80°C).

Using a 10/100Base-T Ethernet or MODBUS RTU network, the NCS connects legacy and new process variable transmitters, sensors, control valves, discrete devices, relays, and other distributed field devices to a DCS, PLC or PC-based system—enabling you to take advantage of digital signal transmission while leaving existing sensors, analog instruments and valves in place. An OPC interface provides plug-and-lay integration with popular PC-based HMI and SCADA automation software packages as well as OPC-compliant clients.

The unit, which features a modular

architecture, can handle current (4-20 mA and 0-20 mA), voltage (0-5 V, 1-5 V, -10 V to 10 V), sensor (RTD and T/C), direct millivolt (-50 to 1000 mV), direct ohm (0-4000 ohms), potentiometer, and discrete input signals. It provides current, voltage, discrete and relay control outputs.

The device operates in peer-to-peer and peer-to-host configurations. Data logging capabilities allow up to 32,000 points of time-stamped data to be stored and retrieved. Advanced control functions include the ability to act as a single or multiple PID loop controller with simple, cascade, split action, and inverse capabilities; and sequential control language programmability based on IEC 1131-3 including ladder, function block, and structured text. Complex functional, math and computation capabilities are also supported.

In addition to Ethernet or twisted wire pair, available communication link options overcome long-distance, normally impassable, and hazardous environments. These include wireless (spread spectrum radio) where wires can't be run for practical or economic reasons; telephone modems for inexpensive data transmission over unlimited distances; and fiber optic cable for sending data through hazardous or noisy environments. The unit's provision for a redundant communication link provides backup should the primary link be severed or otherwise compromised.

—Moore Industries-International, Inc., www.miinet.com

Circle 150 on CSI Reader Service Card