**Peer-to-Peer Distributed I/O Network Over Ethernet**

**Problem:** We have added a small mixing tank on the far side of the plant and we would like to monitor the temperature transmitters with our DCS. There are plenty of spare 4-20mA inputs on our DCS. However, we have run out of spare twisted pair to get the analog signals back to them. We do have an Ethernet backbone. Do you have a product that can accept 4-20mA signals at the field location and transmit those signals via Ethernet to another module that can convert the signals back to 4-20mA?

**Solution:** Our NCS NET Concentrator System® accepts the 4-20mA signals and converts them into digital form that can be transmitted on the Ethernet backbone. At the opposite end of the data link, the NCS converts the digital signal back to identical representations of the original 4-20mA signals for direct input to the DCS analog input cards. Using this, you won’t have to install new twisted pair wiring.

**Model Number Examples**
- EMM / COM / SM / 20-30VDC [DIN]
- AIM / IO / T14 / IP [DIN]
- AOM / IO / TO4 / IP [DIN]