

Compressor Station Monitoring Using Redundant MODBUS

Problem: We have remote compressor stations throughout the plant that are currently monitored by antiquated analog gauges and meters. We would like to upgrade to a rugged field I/O that can monitor 4-20mA signals from temperature and pressure transmitters and send the data back via MODBUS RTU over an in-place twisted pair. Ideally, we would like a redundant network so we can take data to both a remote monitoring cabinet and to our new DCS historian. Do you have a I/O system that can handle this?

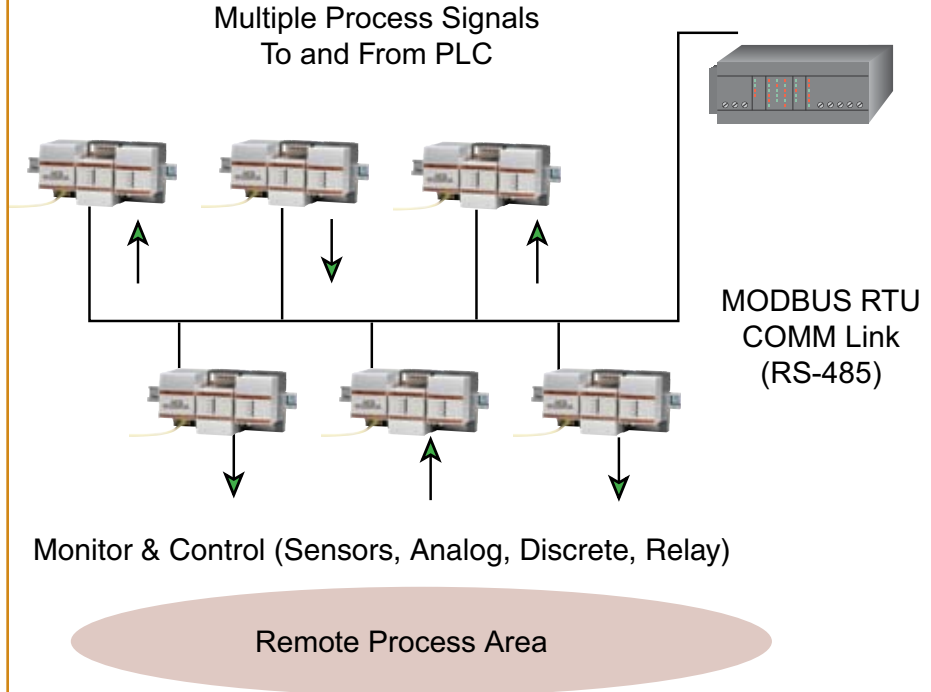
Solution: The NCS NET Concentrator System[®] allows you to build a MODBUS RTU remote I/O network that can simultaneously communicate with two independent MODBUS masters. Any combination of input and output I/O modules can then be added, or expanded, to monitor the various remote points. To accommodate mounting at the compressor sites, the NCS operates at ambient temperature ranges of -40°C to +85°C (-40°F to +185°F).

Model Number Examples

EMM / COM / SM / 20-30DC [DIN]

AIM / IO / AI4 / IP [DIN]

Process Control and Distributed I/O Networks



The NET Concentrator System sends hundreds of remote signals from the field to the control room.

[Go to the Process Control and Distributed I/O Networks Selection Guide](#)