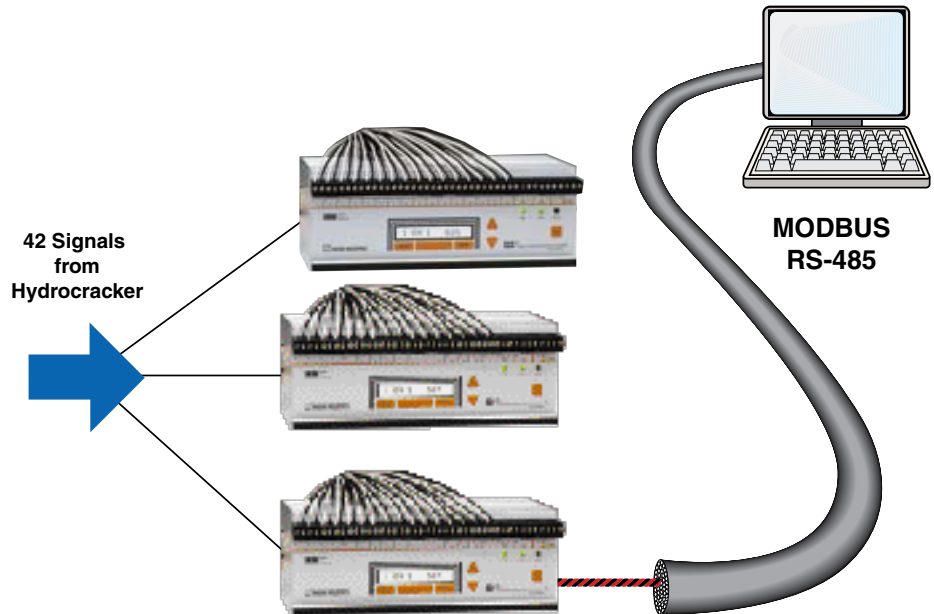


### Process Control and Distributed I/O Networks

#### Multiple Ground Loops Plague Oil Refinery

**Problem:** During a shakedown for a new control system, we discovered that 42 signals from the hydrocracker had developed ground loops. Do I have to buy 42 isolators to fix it?

**Solution:** Just 3 CCS Cable Concentrator Systems can do the same job for up to 48 signals. The CCS isolates each field signal, concentrates it onto a twisted wire pair with up to 127 other signals, and transmits it back to the DCS using MODBUS RTU protocol. The CCS network also frees up wires in your multi-core cables.



Three CCS Cable Concentrator Systems replace up to 48 isolators

**Model Number Example**  
IMM / U / RS485 / 18-30DC / -MBR [DIN]

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