

# Demand Moore Reliability

## HCS Solves Remote Low-Power Data Acquisition Problems

Many oil and gas production sites rely on solar power because of their remote installation locations. These solar systems rely on 12Vdc battery backup at times of low sunlight and at night. The HCS HART® Concentrator System is a smart choice for converting HART to MODBUS RTU at these sites because it can be powered by 9-30Vdc.

The standard Transmitter Excitation (-TX) option on the HCS along with its ability to act as a HART master solves many problems at remote sites. The -TX option provides 23.2Vdc at 24mA to HART slaves while only being powered by 9-12Vdc. In multi-drop settings, HART slaves are locked into 4mA current consumption, allowing up to six slaves to be tied to each HCS. This allows RTUs that either have limited I/O capability or need additional HART variables from transmitters to gain access to previously unavailable process variables.

Common applications include multi-dropping level transmitters, pressure transmitters, getting level and interface values from level transmitters and additional flow variables from mass flow meters.

