

HART concentrator system interfaces with Modbus-based systems

The HCS HART Concentrator System converts a HART digital signal to a serial (RS485) Modbus RTU communication protocol. This permits up to 16 smart HART-capable transmitters and valves to interface directly with Modbus-based monitoring and control systems. The HCS interfaces all HART parameters to Modbus. This includes the ability to monitor primary and non-primary (second, third, and fourth) process variables from smart multivariable mass flow, pressure, pH, and temperature transmitters; Coriolis, magnetic, ultrasonic, and vortex flowmeters; radar and hydrostatic level transmitters; and valve positioners and damper operators. The HART Concentrator also allows monitoring by a Modbus system of HART instrument diagnostics using the field device status data that is available in HART's digital information. This includes: smart device configuration changed; primary and non-primary variable out of limits; primary variable analog output fixed; cold start; field device malfunction; and more HART status data available. The HCS is programmed using Windows PC configuration software. It is housed in an industrial metal and RFI protected housing that snaps onto standard DIN-style rails.

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