A variety of pressure applications are located in remote areas. Such areas may obtain power from solar, wind, or battery sources, or from any of a dozen new technology power recovery systems available. These sources are sufficient, but are limited in the amount of power supplied. A standard smart transmitter that outputs a 4 to 20mA analog signal with a digital protocol overlay is a relative power hog on these limited power sources.

Several manufacturers have introduced 1 to 5 VDC analog outputs with digital HART overlay to lower the amount of power consumed. Yokogawa goes a step above.

Leveraging its unique all-digital DPharp pressure sensor, Yokogawa’s new patent-pending switching circuit allows the transmitter to maintain a constant very low-power consumption.

Unlike other manufacturers, Yokogawa’s low-power pressure transmitters consume approximately 27 mW regardless of the power supply or the output.

See how much power you can save.

**Standard Features:**
- 27 mW Power Consumption (0.96 mA to 3 mA)
- 9 to 28 VDC Power Supply
- 3 or 4 Wire System
- Output: 1 to 5 VDC Analog Signal with Superimposed HART 7 Digital Signal
- Accuracy: ± 0.055% of Span
- Response Time: 90 msec
- Stability: ± 0.1% of URL per 7 Years
- Available Measurement Types: Gauge Pressure, Absolute Pressure, Differential Pressure

**12 VDC Power Supply**
- Competitor Low Power
- EJA-110 Series Low Power

**24 VDC Power Supply**
- Competitor Low Power
- EJA-110 Series Low Power

Power consumption comparison of competitor’s low-power transmitter and Yokogawa’s low-power transmitter.

www.yokogawa.com/us
Yokogawa’s Low-Power Consumption Pressure Transmitters

Output Signal | 1 to 5 VDC with HART 7
Supply Power | 9 to 28 VDC
Power Consumption | 27 mW (0.96 mA to 3 mA)
Wiring | Three or four wire
Output Load | 1 MΩ or greater
Reference Accuracy | ± 0.055% of span
Stability | ± 0.1% of URL per 7 years
Measurements Range | Up to 10,150 psi (Direct-mount type)

Typical low-power pressure application - a solar powered well stack
This configuration includes a solar panel, batteries, controller, well head stack, and three low-power EJA530E pressure transmitters.

VigilantPlant is Yokogawa’s automation concept for safe, reliable, and profitable plant operations. VigilantPlant aims to enable an ongoing state of Operational Excellence where plant personnel are watchful and attentive, well-informed, and ready to take actions that optimize plant and business performance.