



APPLICATION SPOTLIGHTToxic Gas Monitoring



Toxic Gas Monitoring







APPLICATION:

Toxic gases such as Hydrogen Sulfide (H2S) pose a potential hazard at well sites. In addition, oxygen levels can deplete to dangerous levels in confined spaces. Monitoring the levels of potentially toxic gases and O2 is essential to protect the safety personnel who work on site.

PRODUCT SUPPLIED:

- LLC-E-BA custom engineered batch control enclosure
- Positive displacement spur gear flow meter
- Sensor and cable

CHALLENGE:

Remote well sites pose a challenge in monitoring toxic gases and oxygen levels. In many cases, fixed gas detectors are utilized to detect the presence of gases in an area. When serving as a component of a remote safety system, they require both power and an interface that can remotely monitor output the detector.

SOLUTION:

The SignalFire Sentinel-HART with C1D1 solar system coupled with a MSA toxic gas detector offers an easy-to-install, self-powered fixed gas detection point. The C1D1 solar system provides full time power to both the gas detector and Sentinel radio. The Sentinel-HART node is configured to take gas concentration readings from the gas detector at fixed intervals via HART. Data is forwarded to a Gateway typically connected through a backhaul network to SCADA system operators. If gas concentrations exceed a safety threshold, alarming can remotely alert operators of potentially dangerous situations.

