

## SUMMARY

Achieving exact moisture content levels in frac sand is a critical requirement due to American Petroleum Institute (API) standards and customer satisfaction. In order to meet these needs, many companies over-dry the sand, thus driving up the cost of production. Conversely, wet sand in the process line binds up screens causing production shutdown. The SMART III NIR On-line Moisture Measurement System offers a proven method to meet certain targets for processing frac sand.

## INDUSTRY BENEFITS

- Meets regulations: System calibrated specifically for sand to meet American Petroleum Institute (API) standards
- Reduced drying cost: Gives operator ability to know moisture into the dryer and adjust volumetric flow rate
- Deliver more consistent moisture content: Avoid clogged screens from sand that is too wet
- Less down-time: Easily-mounted, durable sensor suited for harsh plant environments

## SMART III NIR PRODUCT FEATURES

- Simplified optics design cuts maintenance and calibration requirements
- Readings are updated 30 times per second as material passes the sensor to enable rapid drying control
- Simple-to-learn user interface with advanced reporting available for power users
- Patented process of filtering reflected energy from sample reduces ambient light and color interference
- Auto-ranging is used to adjust the NIR Sensor output to an optimum level for reliable processing

## KEY SPECIFICATIONS

<b>Moisture Range</b>	Minimum: 0 to 0.1%, Maximum 0 to 60% (wet weight)
<b>Update Rate</b>	30 moisture calculations per second
<b>Penetration Depth</b>	Up to 1mm



Rev 2/17