MEASUREMENT SOLUTIONS FOR THE OIL & GAS INDUSTRY

WELL SERVICING  UPSTREAM  MIDSTREAM  DOWNSTREAM  OFFSHORE
Our broad offering of instrumentation for the oil & gas industry addresses applications including:

- Conventional Oil & Gas Plays
- Unconventional Oil & Gas Plays
  - Oil Sands
  - Coal Bed
  - Shale
  - Offshore

NOSHOK is an industry leader in providing high quality, reliable & robust instrumentation to the oil & gas market. For over four decades, we have offered expertise in providing measurement solutions for a variety of applications, such as:

**PRESSURE, TEMPERATURE & LEVEL MEASUREMENT**
- Well automation (tubing & casing pressure)
- Compressor packages & compressor stations
- Mobile and stationary equipment control panels
- Hydraulic measurement
- Pump suction & discharge
- Engine monitoring
- Injection systems
- Local indication on distribution lines, tanks and vessels
- Remote measurement on service vehicles including blending, frac, cementing, wireline, workover etc.
- True water level measurement in coal bed natural gas wells
- Tank level
- BOP and subsea controls
- Filtration diagnostics

**NEEDLE & MANIFOLD VALVES**
- Isolation, block and bleed manifold valves for differential pressure measurement
- Safety shutoff
- Block, bleed and isolation of critical instrumentation
- Retrofit manifold make up for use on pneumatic recorders and meters

**FORCE MEASUREMENT**
- Pump jacks
- Pulling units
- Weighing and inventory control of vessels and vats
- Overhead cranes, chain hoists and cable hoists

Your Single Source Instrumentation Company
**LEVEL MEASUREMENT SOLUTIONS**

NOSHOK level measurement instrumentation includes low pressure gauges, transducers and submersible transducers designed to measure head pressures from vacuum, inches of water, feet of water, to psig.

**3 YEAR WARRANTY**
- Reliable and cost-effective approach as compared to other level measurement technologies
- Utilizing the NOSHOK submersible transmitter, the user can continuously monitor level
- Pressurized vessels and well sites can be accurately measured using a dual transducer approach
- Available in hazardous location versions
NEEDLE VALVE & MANIFOLD VALVE SOLUTIONS

NOSHOK manifold valves and needle valves, in conjunction with differential pressure measurement instruments, provide precise indication and flow management.

Our offering includes standard bore and large bore manifold valves, needle valves, and block and bleed valves with hard or soft seat designs for isolation of key instrumentation.

NOSHOK carbon steel valves are among the first in the industry to come standard with zinc nickel plating, an alloy which provides exceptional corrosion resistance. Other benefits of zinc nickel plating include:

- Increased deposit hardness
- Extended wear resistance
- Longer service life
- WEEE and RoHS compliant

3 YEAR WARRANTY

- Made in the USA
- Mini valves feature a patented design which significantly increases the pressure rating up to 10,000 psi without compromising the flow coefficient (Cv)
- Hard seat, soft seat, and soft tip configurations available
- Standard and large bore orifice sizes available
- Carbon steel, stainless steel and brass materials available
- Custom designs are available
**Bi-Metal and Vapor Actuated Thermometers**

Full offering of industrial vapor actuated thermometers and bi-metal thermometers to address temperatures from -100°F to 1,000°F.

1 - 7 YEAR WARRANTIES
- Reliable and cost effective measurement for on-site field personnel
- Full offering of thermowells to address corrosive and erosive fluids, high volume flow lines and tanks
- High volume producer of vapor actuated thermometers to the oil and gas industry, offering a full array of options including capillary length, dial sizes, panel mount configurations and temperature ranges

**Temperature Transmitters and Transducers**

NOSHOK temperature transmitters and transducers address temperatures from -40°F up to 1,100°F.

3 YEAR WARRANTY
- Simple RTD primary element with built in amplifier to provide commonly used signals for the industry. No more primary elements with a separate hockey puck design - we offer an all-in-one unit.
  - Full offering of stem lengths and various options for electrical connections
  - Can be used in conjunction with a thermowell to address harsh applications

**FORCE MEASUREMENT SOLUTIONS**

NOSHOK provides load cells and force sensors for most applications, that include:
- Hydraulic load cells
- Tension compression load cells and force sensors
- Load pins
- Silo kit systems for tank weighing

1 YEAR WARRANTY
- Local or remote indication
- Fully amplified output signals including 4 to 20 mA, 0 to10 Vdc, etc.
- Silo kit package offers a turn key solution for tank or vat weighing