

NOSHOK provides pressure, level and temperature measurement solutions, along with diaphragm seals and instrument valves designed to easily integrate into your system and deliver highly accurate, reliable performance.



## APPLICATION ASSEMBLIES



IO-Link







NOSHOK offers several application-focused solutions, designed to fit specific requirements.

### All Non-Metallic Diaphragm Seal & Pressure Transmitter/Switch

- Electronic indicating pressure transmitter with optional IO-Link with two alarms, protected by a corrosion-resistant, chemically inert PTFE diaphragm seal with one simple connection
- Ideal for water, wastewater & chemical feed applications
- A tested and proven solution used in multiple municipalities
- Can be used to replace a heavy analog gauge with a diaphragm seal and mechanical switch, commonly used for pump shut-off protection
- Delivers a high level of repeatability and durability
- Compact size & light weight significantly decrease possible leak paths
- With no moving parts to wear out, this instrument provides a significantly extended service life over mechanical analog systems
- The instrument and seal can be used with a power supply and Form C relays to easily integrate into any AC chemical feed system

### Distribution Manifold

- Connects multiple instruments to one diaphragm seal
- Eliminates multiple connections that lead to possible leak paths
- Lower fill volume enhances performance and decreases temperature error
- Multiple sizes and configurations available

### Cage-Protected Submersible Level Transmitter

- Designed for severe high solids environments such as sewage, lift stations, storm canals, wet wells and slurry tanks where sludge, slurry or turbulence may be present
- Ideal for a wide variety of industrial and municipal liquid level measurement applications requiring watertight protection

**Your Single Source Instrumentation Company**

For over half a century, NOSHOK has been an industry leader in the international marketplace, serving a wide variety of industries including oil & gas, fluid power, general industrial, automation, chemical processing, manufacturing, and food & beverage. We are now providing the same proven performance and technology to the water & wastewater market.

### *PRESSURE & LEVEL MEASUREMENT*

- Wastewater pumping stations
- Lift stations
- Storm water overflow tanks
- Chemical feed
- Screening plants
- Heavy solids/sludges
- Slurry tanks
- Reservoir/well depth measurement
- Discharge controls
- Booster pumps
- Dewatering and grinder systems
- Blowers
- Filtration of process water for cooling circuits
- Irrigation systems
- Flash evaporation and desalination

### *TEMPERATURE MEASUREMENT*

- Boilers
- Digestion towers
- Compressors
- Condensers
- Coolant and oil circuits
- Water systems
- Storage Tanks
- Lift pumps
- Reverse osmosis

### *NEEDLE & MANIFOLD VALVES*

- Isolation and control in water transmission pipelines
- Tanks and pump stations
- Air blowers in wastewater treatment
- Water transport within desalination plants

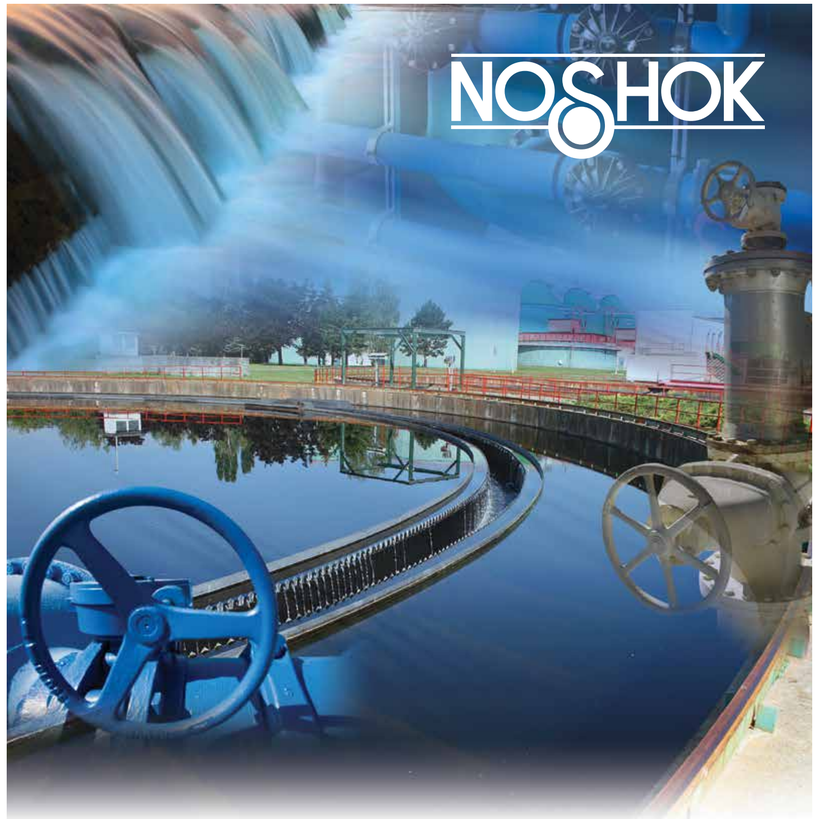

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# MEASUREMENT SOLUTIONS FOR THE WATER & WASTEWATER INDUSTRY

**MUNICIPAL AND INDUSTRIAL WATER & WASTEWATER PROCESSING**

NOSHOK

Your Single Source Instrumentation Company

NOSHOK

## PRESSURE & LEVEL MEASUREMENT SOLUTIONS



### Cage-Protected Level Transmitters

Designed for severe high solids environments such as sewage, lift stations, storm canals, wet wells and slurry tanks where sludge, slurry or turbulence may be present.

**3-YEAR WARRANTY**

- Features large 3" non-fouling sensing area
- Welded at cap and base to provide a leak-proof seal
- Highly accurate, shock-resistant and extremely stable over long periods of time
- Electrical surge, noise and reverse polarity protected



### Pressure Gauges

Vacuum and pressure from 10 in$H_20$ through 85,000 psig, as well as differential pressure.

**3-YEAR WARRANTY**

- Dial indicating, process, digital and differential gauges
- Multiple case materials, filling and connection options
- Vibration, shock, pulsation and chemical-resistant
- High quality construction including heavy Bourdon tubes for longer life
- Liquid-filled and dry configurations available



### Pressure Transmitters and Transducers

NOSHOK pressure transmitters and transducers are available in vacuum, absolute and gauge pressure ranges up to 145,000 psig.

**3-YEAR WARRANTY**

- Vibration and chemical resistant with a full array of commonly used outputs (4 mA - 20 mA, 0 Vdc - 10 Vdc, .5 Vdc - 4.5 Vdc, etc.)
- Extremely stable zero and span
- Front flush diaphragm option for sludge, slurry or high viscosity media
- High RFI, EMI & ESD protection





IO-Link

### Pressure Transmitter/Switch

Features a display and electrical connection that can be rotated independently and offers seven different output configurations.

**3 YEAR WARRANTY**

- Ideal for use with discharge controls, pump stations, booster pumps, dewatering & grinder systems, and blowers
- Combine with the NOSHOK Type 5 all non-metallic diaphragm seal for a streamlined, lightweight solution with minimal leak paths on chemical feed pumps



### Diaphragm Seals

NOSHOK offers a variety of diaphragm seals to accommodate multiple water/wastewater applications including slurries, heavy sludges, chemical feed and corrosive media applications.

**1-YEAR WARRANTY**

- Clog-resistant flow-through annular style seal for slurries and heavy sludges
- Non-metallic seal for wastewater and chemical feed
- A full range of additional diaphragm seal materials and constructions available

### Accessories

- Pigtail steam syphons, snubbers, swivel adapter

## TEMPERATURE MEASUREMENT SOLUTIONS



### Industrial RTDs

NOSHOK RTDs provide extremely accurate temperature measurement in a variety of applications including boilers and primary digesters.

**3-YEAR WARRANTY**

- Several connection head options available
- 2, 3 or 4-wire circuit configurations
- Can be ordered with a fixed probe or spring loaded

### Temperature Transmitter/Switch

Measures and displays temperature, with one or two switching outputs as well as optional current and voltage outputs. A variety of process connections, including sliding compression fittings, add to the versatility of this sensor.

**3-YEAR WARRANTY**

- Wide measuring range between -300 °F and 1,100 °F / -200 °C and 600 °C covers the majority of applications

## TEMPERATURE MEASUREMENT SOLUTIONS



### Temperature Transmitter

Proven 100 Ω platinum resistance sensor provides reliability, stability & exceptional performance. Excellent for applications including water systems, storage tanks and industrial machinery.

**3-YEAR WARRANTY**

- Wide variety of temperature ranges and connections
- Also available with our 1800 Series attachable loop indicator

### Bimetal Thermometers

NOSHOK's industrial and instrument type bimetal thermometers are available with multiple stem length, dial size, lens, connection & range options.

**1-8 YEAR WARRANTIES**

- High quality, cost-effective thermometers
- Accuracy: ±1% full scale, Grade A, ASME B40.3

### Accessories

- Thermowells

## INSTRUMENT VALVE SOLUTIONS



### Block & Bleed Needle Valves

**3-YEAR WARRANTY**

- Hard & soft seat needle valves, zinc-nickel plated steel or stainless steel

### 2-Valve Block & Bleed Needle Valves & Static Pressure Manifold Valves

**3-YEAR WARRANTY**

- Hard & soft seat, combines isolating & venting in a single valve
- Multiple packing, stem tip, o-ring and handle options

### 3-Valve Differential Pressure Manifold Valves

**3-YEAR WARRANTY**

- Hard & soft seat, block, single flange or double flange connections

### 5-Valve Manifold Valves

**3-YEAR WARRANTY**

- Hard seat & soft seat/tip, with pressure ratings up to 10,000 psi
- Available in Flare Pattern™ expanded valve configuration

