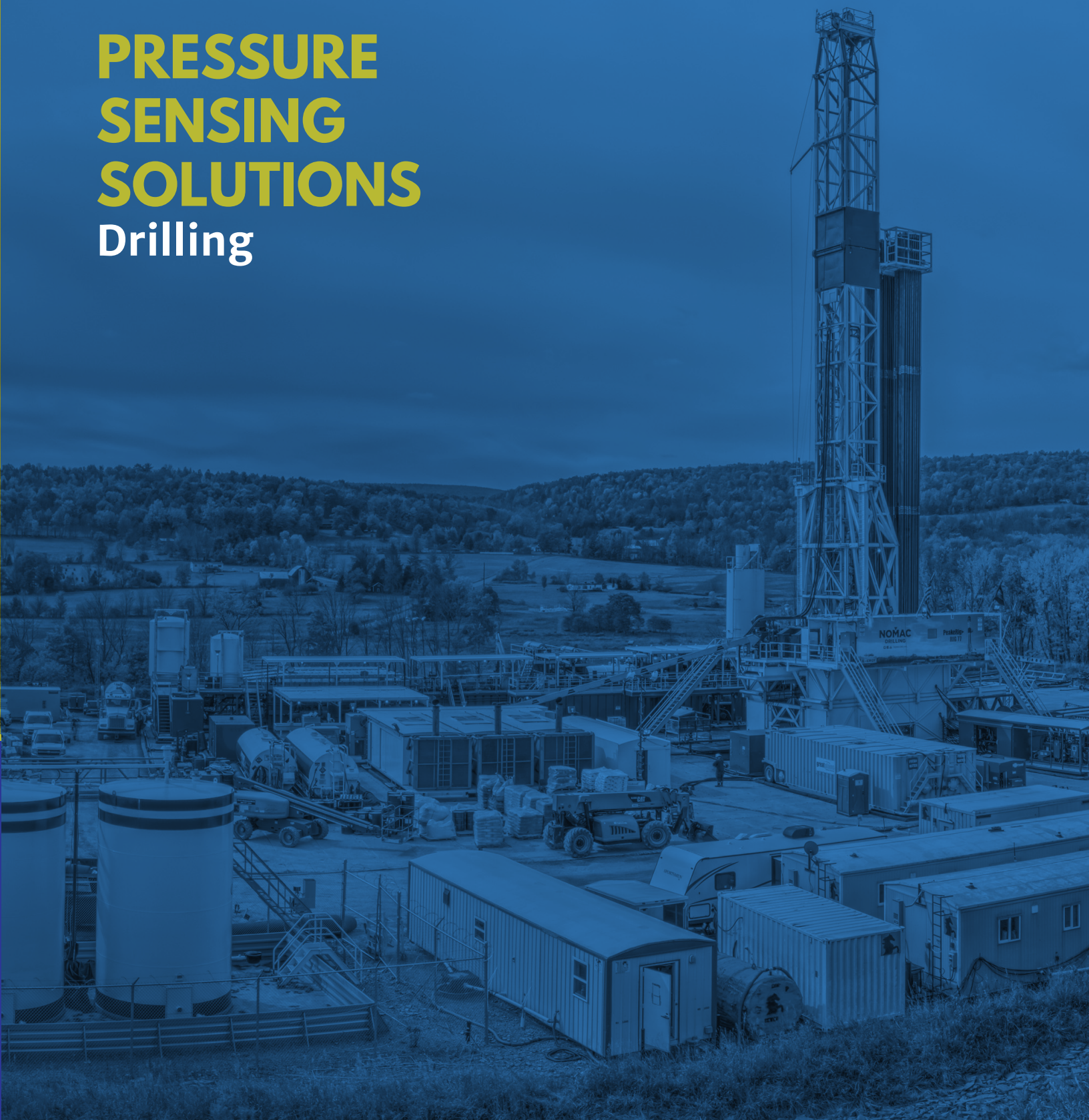




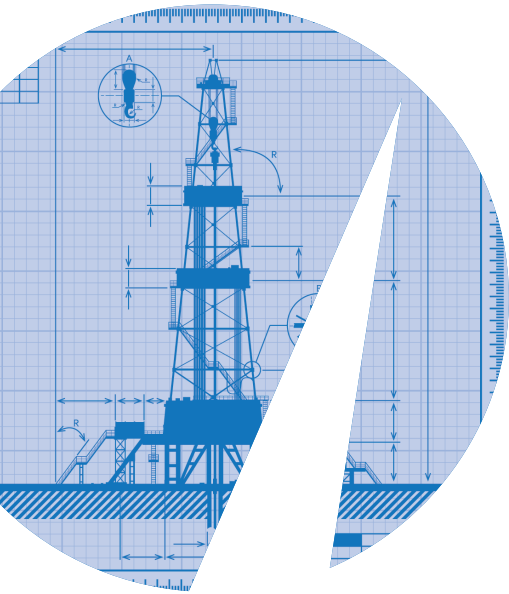
PRESSURE SENSING SOLUTIONS

Drilling



solutions for

Oil & Gas



The Value of Viatran to Your Operation

Viatran value is measured in maximum reliability and minimal repair, unlike products that result in less durability and more downtime for replacement. Viatran value is worth your investment for the long run:

◆ PRODUCTS

50 years of proven solutions

◆ TECHNICAL SUPPORT

Expert problem solvers

◆ CUSTOMER SERVICE

Fast, friendly and honest

Downtime is expensive. Protect your bottom line with quality products from Viatran.

For half a century, Viatran has been solving pressure and level measurement problems in some of the world's toughest application environments. With a long-standing reputation of superior construction and rugged performance, Viatran pressure and level transmitters have been meeting the demands of the oil and gas industry in drilling, secondary recovery, offshore and land-based production.

From the North Slope of Alaska to the Sahara Desert, oil rig environments require process instruments that must be able to withstand constant subjection to changing pressure, temperature, humidity, corrosion, vibration and shock. Viatran products measure up to each task.

Viatran's substantial expertise in oil and gas allows us to provide outstanding solutions and support upon which you can depend for durable quality and fast service to keep your operation up and running efficiently.



Viatran products are designed to promote oil rig safety at every turn, solving any problems that may occur quickly and easily – with maximum productivity and minimum downtime.



Our rugged pressure sensors and transmitters are renowned for providing robust performance and reliable pressure measurement in the even the toughest environments.

PRESSURE AND LEVEL MANAGEMENT

with transmitters from Viatran

Key players in the Oil and Gas industry rely on Viatran because our products are proven, our technical expertise is deep and our service team is laser focused on helping our customers grow their business.

Viatran pressure transmitters play a major role in maintaining safety on an oil rig. In order to monitor product, process and hydraulic pressures, our transmitters reliably trigger safety shut-downs when hazardous conditions are detected. Viatran addresses specific pressure transmitter applications on oil rigs, including measuring ballast tank levels and hydraulic pressure on jack-up drilling rigs, as well as pressures on platform flow lines, additive metering pumps, subsea injection valves and well cleanouts.

ID	Application	Sensor Purpose	Viatran Transmitter Model Number						
			511	521	570	571	347	385	DLT
1	Hook Load	Measure weight of drill string			X				
2	Top Drive	Measure hydraulic pressure for control systems			X	X			
3	Standpipe	Measure standpipe pressure	X	X					
4	Iron Roughneck	Measure torque while attaching drill pipe using hydraulic pressure measurements			X	X			
5	Catwalks	Measure hydraulic pressure			X	X	X		
6	Accumulator Unit	Measure inlet/outlet pressure			X	X			
7	Water Reservoir or Tank Levels	Measure fluid levels							X
8	Rig Hydraulic Lift	Measure hydraulic pressure, monitor raising or lowering of deck for directional drilling			X	X			
9	Choke Manifold	Measure manifold pressure	X	X					
10	BOP (Blowout Protector)	Measure wellhead pressure			X	X			
11	Power Generation Units	Measure lube oil, water & hydraulic fluid pressures			X	X	X		
12	Fluid Manifold	Measure drilling fluid pressure	X	X	X	X			
13	Mud Return Line	Measure drilling mud pressure to monitor & control mud flow	X	X					
14	Mud Pump (Inlet Pressure)	Measure pressure & flow of mud media						X	
15	Mud Pump (Outlet Pressure)	Measure pressure & flow of mud media	X	X					
16	Transmission Pressure	Measure pressure of transmission oil					X		
17	Mud Pump (Lubrication)	Measure pressure of lube oil lines					X		
18	Water Reservoir or Tank Levels	Measure fluid levels							X

VIATRAN PRESSURE SENSORS IN OIL RIG APPLICATIONS

Designed for rugged
environmental conditions



- 1 Hook Load**
Measure weight of drill string
Model 570
- 2 Top Drive**
Measure hydraulic pressure for control systems
Models 570, 571
- 3 Standpipe**
Measure standpipe pressure
Models 511, 521
- 4 Iron Roughneck**
Measure torque while attaching drill pipe using hydraulic pressure measurements
Models 570, 571
- 5 Catwalks**
Measure hydraulic pressure
Models 570, 571, 347
- 6 Accumulator Unit**
Measure inlet/outlet pressure
Models 570, 571
- 7 Water Reservoir or Tank Levels**
Measure fluid levels
Model DLT
- 8 Rig Hydraulic Lift**
Measure hydraulic pressure, monitor raising or lowering of deck for directional drilling
Models 570, 571
- 9 Choke Manifold**
Measure manifold pressure
Models 511, 521
- 10 BOP (Blowout Protector)**
Measure wellhead pressure
Models 570, 571



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11 Power Generation Units

Measure lube oil, water and hydraulic fluid pressures

Models 570, 571, 347

12 Fluid Manifold

Measure drilling fluid pressure

Models 511, 521, 570, 571

13 Mud Return Line

Measure drilling mud pressure to monitor and control mud flow

Models 511, 521

14 Mud Pump (Inlet Pressure)

Measure pressure and flow of mud media

Model 385

15 Mud Pump (Outlet Pressure)

Measure pressure and flow of mud media

Models 511, 521

16 Transmission Pressure

Measure pressure of transmission oil

Model 347

17 Mud Pump (Lubrication)

Measure pressure of lube oil lines

Model 347

18 Water Reservoir or Tank Levels

Measure fluid levels

Model DLT

PERFORMANCE AND RELIABILITY

Solutions custom-fit to your application

511 Hammer Union (Figure 1502) MWD, Mud Pump Pressure

- The workhorse of the oil patch with patented vibration and shock-resistant design eliminating fluid ingress
- Easy access connector housing with a 77% greater area
- NACE Compliant (MRO175-2009 & ISO 15156)
- FM, IECEx, ATEX and PED approvals available
- Repairable and field adjustable



521 Hammer Union (Figure 2002) Pump Discharge Pressure

- Hammer Union pressure transmitter for use in oil well cementing, fracturing and acidizing
- Shock and vibration resistant
- External adjustments
- Pressure up to 25,000 PSI (1,724 bar)
- FM, IECEx, ATEX and PED approvals available



570 Hazardous Location Rig Safety

- A better alternative to conventional process transmitters in a reliable, cost-effective, watertight/submersible design
- All stainless steel construction and lightweight to enable direct mounting on process piping
- Exotic wetted materials available
- FM, ATEX, CSA and PED approvals available
- Pressure up to 100,000 PSI/PSIA (7,000 bar)



571 Hazardous Location Rig Safety

- All welded stainless steel, watertight/submersible design
- Field rangeable
- Hermetically sealed - magnetically coupled adjustments
- FM, ATEX, CSA and PED approvals available
- Pressure up to 100,000 PSI/PSIA (7,000 bar)



347 General Purpose Lube Oil & Transmission

- Low-cost, rugged pressure transmitter provides a reliable measurement solution
- Sealed and stable
- Resistant to pressure spikes
- Welded stainless steel construction



385 Flush Tip Mud Pump Inlet Pressure

- Zero cavity design*
- Isolated sensor design virtually eliminates torque effect on output signal
- Solid stainless steel machined diaphragm
- Withstands pressure spikes up to 5x proof and 20x burst pressure
- Fully welded and sealed housing impervious to fluid ingress
- *Patents Pending



DLT Detachable Level Transmitters

- A robust pressure transmitter that is submersible, measuring liquid level and depth
- DLT Series allows for a quick sensor swap without removal of installed cable
- Detachable and replaceable sensor head
- Available in ranges from 0-40 inches W.C. to 0-835 feet W.C.
- PUR, PVC or FEP cables offered



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