



## TECHNICAL DATA SHEET

No. SPECS-DRL-045

### STANDPIPE PRESSURE SENSOR

Rev. 0

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**TITLE:** STANDPIPE PRESSURE SENSOR SYSTEM

**DEPARTMENT:** TECHNICAL SUPPORT

**DESCRIPTION:**

A pressure transducer is mounted into the Drilling Rig Standpipe Manifold or Hydraulic system.

Standpipe Pressure is measured directly.



**A. Standard Unit Specifications.**

BRAND:	Rosemount
MODEL:	Model 3051 Smart Pressure Transmitter
SENSOR TYPE:	Diaphragm - Piezoresistive Silicon Sensor
INSTALLATION LOCATION:	Standpipe Manifold.
MEASURING RANGE:	0-10,000 psi (Re-rangeable SPAN from 0 - 2,000 psi to 0 - 10,000 psi)
SENSITIVITY:	0.5 psi
ACCURACY:	±0.075% of SPAN
RESPONSE TIME:	100 ms
STABILITY:	±3.5 psi for 5 years
APPROVALS/CERTIFICATION:	Explosion proof for Class I, Division I, Groups B, C, and D. Dust-Ignition Proof for Class II and Class III, Division 1, Groups E, F, and G. Suitable for indoor and outdoor (NEMA 4X) hazardous locations. Factory Sealed.
OUTPUT:	Chart Recorder, DLS System, Digital Monitors



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#### IL STANDARD MODEL CONFIGURATION:

10,000 psi Pressure Transducers: **3051TG5A2B21AE5Q4**

**3051T:** Transmitter Type ("Pressure Transmitter")

**G:** Pressure Type ("Gage")

**5:** Pressure Range / Minimum Span ("-14.7 to 10000 psi/2000 psi -- -101 to 68900 kPa/13800 kPa")

**A:** Output ("4-20 mA with Digital Signal Based on HART Protocol")

**2B:** Process Connection Style ("1/2-14 NPT Female")

**2:** Isolating Diaphragm ("316L SST")

**1:** Fill Fluid ("Silicone")

**A:** Housing Material / Conduit Entry Size ("Polyurethane-covered Aluminum / 1/2-14 NPT")

**E5:** Hazardous Locations Certifications ("FM Explosionproof Approval")

**Q4:** Other Options ("Calibration Data Sheet')

#### APPROVAL:

Dept. Supervisor : VICTOR SAET

Date: 22<sup>nd</sup> July 2002

Technical Committee : ALAN MORRISON

Date: 22<sup>nd</sup> July 2002