



**TECHNICAL DATA SHEET**  
**MUD TEMPERATURE IN / OUT**  
**SENSOR**

No. SPECS-DRL-057

Rev. 0

Page 1 of 2

**TITLE: MUD TEMPERATURE IN / OUT SENSOR SYSTEM**

**DEPARTMENT: TECHNICAL SUPPORT**

**DESCRIPTION:**



Temperature is measured directly at two locations, usually the Ditch and Active Pit system.

Through DLS software calculations of differential temperature and geothermal gradient may be performed.



**A. Standard Unit Specifications.**

**BRAND:** Rosemount

**MODEL:** Model 244EH PC Programmable Temperature Transmitter

**SENSOR TYPE:** Platinum and Nickel RTD – Pt 100  $\alpha = 0.00385$

**INSTALLATION LOCATION:** Active Pit, Possum Belly or Flowline (Divider)

**MEASURING RANGE:** 0-300°C (0-572°F)

**ACCURACY:** 0.3°C (0.54°F)

**RESPONSE TIME:** 1 sec

**STABILITY:**  $\pm 0.1\%$  of reading or 0.1°C (whichever is greater) for 12 months

**APPROVALS/CERTIFICATION:** Explosion-Proof for Class I, Division 1, Groups B, C, & D. Dust-ignition Proof for Class II, Division 1, Groups E, F, & G. Dust-ignition Proof for Class III, Division 1 hazardous locations. Intrinsically Safe for Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; Non-incendive for Class I, Division 2, Groups A, B, C, D hazardous locations. Temperature Code T5 (Tamb = 80°C) (T6(Tamb = 40°C))

**OUTPUT:** Chart Recorder, DLS System, Digital Monitors



**TECHNICAL DATA SHEET**  
**MUD TEMPERATURE IN / OUT**  
**SENSOR**

No. SPECS-DRL-057

Rev. 0

Page 2 of 2

**IL STANDARD MODEL CONFIGURATION:**

Temperature Transmitter: **244EHK5J3Q4**

- 244EH:** Head Mount Temperature Transmitter  
**K5:** FM intrinsic safety, non-incendive, and explosion-proof approval combination  
**J3:** Universal Head (junction box with ½ -14 NPT entries)  
**Q4:** Calibration Certificate. 3-point standard ; use

**APPROVAL:**

Dept. Supervisor : VICTOR SAET

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

Technical Committee : ALAN MORRISON

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