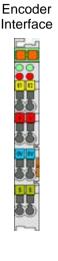


ROTARY TORQUE

(hydraulic)







Pressure transmitter to monitor the rotary torque

- High stability
- High accuracy
- High shock and vibration compliance
- Individual types and pressure ranges

Parameter Specifications

Measuring range Depending on rig specification

Normally 0 to 400 bar

System accuracy ≤ 1% of full scale

System resolution 0.1 bar



Principle of Operation

diaphragm separates micromachined silicon sensor with temperature compensation from the pressure medium. Silicon oil serves as transmitter. An integrated amplifier converts the output test current, which is proportional to the pressure density, into a corresponding DC signal (4 - 20 mA).

Maintenance

Once the system is set up and calibrated, generally no maintenance will be required.

Visual routine checks (daily) shall include the observation of possible leaks in the sensor hydraulic system.

Data Processing

The powerful DMS software records, visualizes and displays data on different locations on the well site.

The DMS supports the setting of individual alarms for "High" and "Low" limits.

Technical Specifications

SENSOR

Type or model: Pressure transmitter

Certified for hazardous area: Intrinsically safe to EEx ia IIC T4
 Certificate of conformity: BASEEFA No. Ex-89.C.2251

Operating temperature range: -20 °C ... +80 °C

■ Supply voltage: 24 V DC

• Installation point : Connected to the load cell of the rotary torque indicator

(process connection e.g. 1/4" NPT HANSEN)

TRANSMITTER / REPEATER UNIT

Type or model

EEx ia IIC

Barrier Amplifier - EEx ia IIC

Certificate of conformity:

BASEEFA No. ExTÜV 99 ATEX 1499 X

● Signal output : 4 – 20 mA 4 – 20 mA

■ Supply voltage: 24 V DC 24 V DC

■ Bus System: Not applicable Field bus independant connectors

Installation: Logging unit; plugged into 19-inch frame (DMS rack)