

# Gas-Oil Ratio Measurement

## GO-S10



### Description:

The Gas-Oil Ratio (GOR) is a crucial property of any oil reservoir as it determines the amount of gas separated from a unit volume of reservoir liquid (oil) measured at standard conditions. GOR plays a vital role in assessing the hydrocarbon volume in place and formulating the best production scenario. To address this importance, the GOR apparatus is designed to flash pressurized liquids, measure the liberated gas at equilibrium conditions, and collect dead liquid using calibrated devices. The system is equipped with a manual 4-liter gasometer to measure the liberated gas with an accuracy of 1 cc, while the pressure and temperature of the system are indicated.

### Technical Specification:

- Maximum Working Pressure: 400 bar
- Pressure Transmitter, Pressure Accuracy: 0.5% full scale
- Back Pressure Regulator: 400 bar
- Vials for Separation of Liquid and Gas
- Live Oil Accumulator: 200 cc
- Gasometer × 1: Equipped with a linear encoder
  - o Volume: 4 liters, Pressure Accuracy: 0.5% full scale
  - o Temperature Accuracy: 0.5% full scale
  - o Linear Encode Accuracy: 5  $\mu$ m
  - o Wetted Parts: Stainless steel 316
- Separator: 500 cc



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