

# Drilling Recorders

The most widely used mechanical drilling recorder ever. NOV mechanical drilling recorders represent the best in business, excelling in accuracy, durability, reliability, and simplicity. In today's drilling world, an accurate correlation of drilling conditions related to time is essential to efficient operations. Our Drilling Recorders give you duplicate 12 or 24-hour strip charts that are available in English, metric or SI metric measurements. Recorders are available in 5, 6, 7 and 8-pen configurations.

All recorders include drill string weight, penetration rate, and other parameters of your choice:

**Weight** — This measurement is sensitive enough to detect downhole problems such as tight hole or cave-ins as they occur.

**Penetration** — This parameter is indicated on the English chart by a short mark for each foot drilled and a longer mark for each five feet. On metric charts, indications are at 1/4 and full meters.

**Rotary speed** — Indicates the revolutions per minute of the rotary table, an important function for optimum penetration.

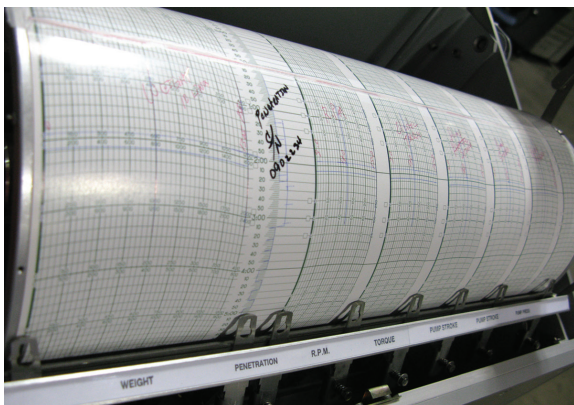
**Torque** — Shows electric or hydraulic rotary torque changes during drilling that inform the driller of formation transitions, worn bit, and tight or out-of-gauge holes.

**Pump rate** — Permits accurate calculations of fluid volume pumped into the circulating system based on strokes per minute. Comparisons of pump rate, fluid pressure, pit level and flow could help predict kick areas for offset wells.

**Fluid pressure** — Provides an accurate record of fluid system pressure. Changes in pressure indicate potential washouts, kicks, plugged bits or numerous other downhole problems.

- Uses the same sensors as your primary drilling instrumentation
- Rugged, simple design is easy to maintain
- Wall or floor mount configurations
- Includes chart box
- Service available around the world

NOV specializes in drilling activity information gathering. When it comes to drilling instrumentation, nobody does it better than NOV. End-user confidence is gained and maintained through our 80+ years of industry experience and innovation.



## Features and Benefits

### Input Signal Range

- Output of Recorder Sensor

### Sensors

- Hook Load: Deadline Diaphragm or Tension or Compression Load Cell in anchor.
- Penetration: Mechanical; wireline attached to swivel.
- Rotary Torque: Hydraulic - Idler Assembly; Electric - Split - Core Transducer.
- Pump Pressure: Hydraulic Diaphragm Protector.
- RPM: DC Tachometer Generator or tied into RATEMASTER.
- SPM: DC Tachometer Generator or tied into RATEMASTER.

### No Alarm Limits

### Displays

- Chart: 12 or 24-hour

### Operating Temperature

- -40° to +150° F (-40° to +65° C)

### Enclosure Material

- Aluminum

### Overall Dimensions

- Average with stand: 47.75" H x 26.75" W x 20.25" D (121.3 cm H x 68 cm W x 51.4 cm D)

### Primary Component Weight

- Range: 420 lb to 500 lb (190.5 kg to 226.8 kg)

### Packed for Export Shipment

### Display Environmental Class

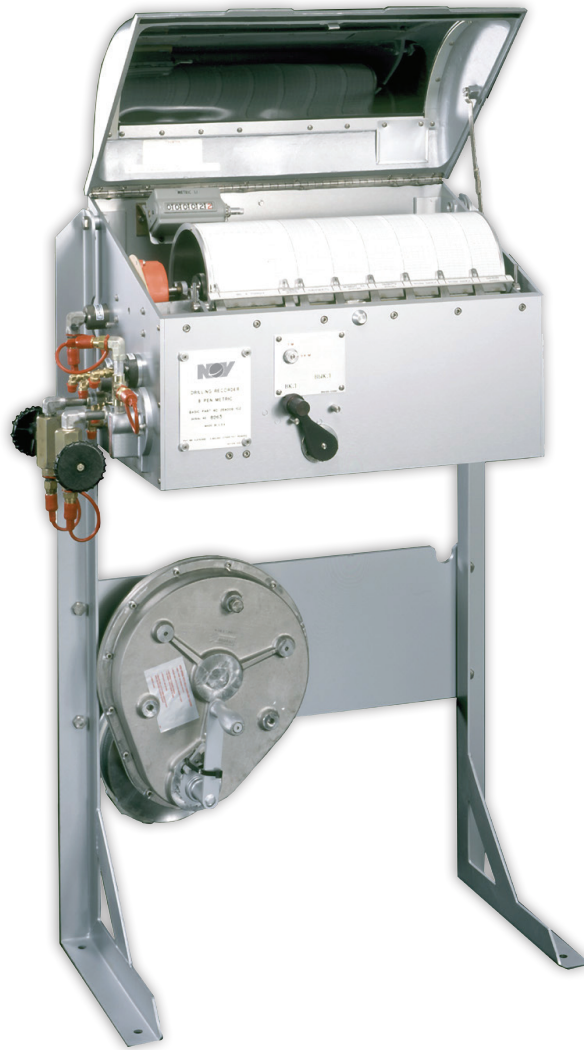
- Dust-proof; drip-proof; suitable for semi-protected area installation.

## Standard Configurations

- 5 or 6-pen: penetration, weight, plus your choice
- 7 or 8-pen: penetration, weight, plus your choice
- Remote clutch
- Slow and fast penetration marking
- Duplicate charts
- Chart boxes



# Drilling Recorders



*NOV Drilling Recorders are built to hand the toughest drilling conditions you'll find. The recorder itself is packed into a heavy-duty, anodized aluminum cabinet that seals tight to keep out the elements.*