

SAFETY AND SUSTAINABILITY IN HYDRAULIC FRACTURING

interface
FORCE MEASUREMENT SOLUTIONS.

Interface load cells are used throughout hydraulic fracturing operations to ensure accurate force and pressure measurement during the extraction of natural gas and oil. In fracking, high-pressure fluids and proppants are injected underground, so monitoring proppant flow, equipment tension, and fracturing pressures is critical for productivity and safety. This measurement capability helps operators maintain optimal fracking conditions, prevent equipment failures, and improve the efficiency and output of the well.

Hydraulic fracturing is known in the energy sector as fracking. It is a process used for extracting oil and natural gas from underground. With natural gas consumption growing across markets globally, methods to meet the demands require sensor-based solutions safely and efficiently.

Hydraulic fracturing occurs thousands of feet underground. Equipment used in these environments must be suitable to withstand high amounts of force and pressure. Interface products designed for underground energy exploration are engineered for high capacities and IP rated exposures.

Interface's IPCD downhole load cell is pressure-compensated up to 20,000 PSI and temperature-compensated up to 350°F, making it suitable for extreme fracking environments.

Hydraulic fracturing applications supported by Interface force measurement solutions span across multiple energy operational sectors, including proppant injection monitoring, downhole tension monitoring, wireline equipment monitoring, and proppant storage.

Interface develops both standard and engineered-to-order force measurement products, indicating support for a wide range of hydraulic fracturing applications and equipment types.

