CROWN OUT FLOOR OUT CONTROLLER

SAFELY AND ACCURATELY MEASURE BLOCK POSITION WITH AUTOMATIC SAFETY LIMITS FOR CROWN & FLOOR IMPACT PREVENTION

SENSORS: Rotational sensors interface with existing crown sheave to monitor block position and speed. Sensors can be installed on the existing crown sheaves or retrofitted to the drawworks.

AUTOMATIC SAFETY INTERLOCK: Upper and lower block limits are set during rig up process. If limits are exceeded, a smart valve is actuated and the drawworks clutch and throttle are disengaged while the brake is applied. A visual and audible indicator on the electronics alerts the operator of this condition. Optional wireless alerts are sent to additional personnel.

ZONE CONTROL: Intermediate zones can be programmed for top drive rigs which prevent travel thru the pipe platform.

DATA LOGGING: Logs all measurement data and alarms to USB memory stick. Anti-manipulation feature prevents post-process data corruption.

SPEED CONTROL: Prevents the block from over running the upper and lower limits even when the brake is engaged due to inertia.

WEIGHT MODE: Adds weight sensor to crown blocks for decimal point load accuracy. Overload alarms trigger the automatic safety interlock. Also compatible with pad type hydraulic load cells.

SANDLINE VERSION: Additional display or combined display option shows both the main and sandline position, depth, speed, and weight parameters. Safety interlocks can be programmed for all measurement parameters.

PROGRAMMABLE CONTROLLERS • TENSIOMETERS • SOFTWARE

206-634-1308 • RUGGED-CONTROLS.COM

RC RUGGEDCONTROLS

INSTRUMENTATION

STANDARD SYSTEM:

Crown Rotational Sensor Assembly

LCI-80x Crown Out Floor Out Controller

Solenoid Air Control Valve

Air Brake Actuator

OPTIONS:

Weight Sensors in Crown Blocks

Sandline Rotational Sensor Assembly

LCI-90i - Dual Crown & Sandline Monitor
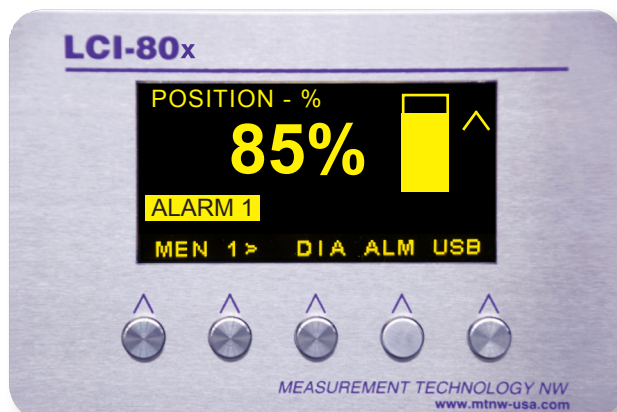

Deadman Safety Switch

Weight Sensors - Hydraulic Pad type

Encoder Sensor at Winch

CROWN OUT FLOOR OUT DISPLAY:

OPTIONAL SOFTWARE FEATURES:

- KPI Reports
- On-Rig Video
- Weather Data
- Rig Vitals/Engine
- Bluetooth, Wifi or Cellular communications
- Ton/Miles Calculator
- Crew Activity Logging
- GPS/Rig Location