Pump Jack with Motor Starter Lift Systems Functions & Features

Field Sensors

Configuration 1: Load Cell + Inclinometer

Configuration 2: Load Cell + Inclinometer + Motor Sensors

- Pump fill monitor and Pump Off Control (POC)
- Timer or Calendar based pumping control
- Pumping unit, rod string and down hole pump models
- Gear box torque monitor
- Power Consumption monitor, efficiency calculation and report *(motor sensors required)*
- Tubing, casing, fluid and reservoir models
- Rod string weight and resonance calculator
- Density and flow loss calculation from fluid and gas property
- Deviated well compensation
- Counterbalance compensation calculator
- Auto rod friction modeling option for more reliable pump fill calculation
- Pump flow monitor and production accumulator
- Casing and tubing pressure compensation
- Pump intake and discharge pressure monitors
- Fluid level monitor
- Down hole pump position, velocity and load monitors
- Rod position and velocity monitors
- Rod load monitor and protection
- Actual surface and pump dynamometer graph generators
- Predicted surface and downhole dynamometer graph generator
- Stop and Fault dynamometer graphs stored in memory
- Store surface and downhole dynamometer graph with SD memory *(optional)*
- Time-stamped event, warning and fault logging
- Interface for multichannel analog data logging *(optional)*
- well report generator
- Remote Sensor communications via Modbus master RTU
- SCADA communications via Modbus RTU
- Ethernet TCP/IP connection*(optional)*
- WIFI wireless local communications *(optional)*

1100.21(026)   5/23