HiPer[™] Control System

Remotely controls Weatherford power tongs and positioning systems

Applications

- Control of mechanized tong-positioning systems such as the PowerFrame[®], PowerScope[®] and PowerArm[®] tong positioning systems
- Control of mechanized casing, tubing, riser, and drillpipe tongs
- Control of optional equipment for the TorkWrench[®] drillpipe wrenching tongs (integral mud bucket, stabbing guide, and cleaning/doping device)

Features and Benefits

- The system incorporates a high-speed industrial computer that emulates a programmable logic controller (PLC) and features an open system configuration for versatility.
- Full remote capability from the driller's control cabin enables operation from a safe distance.
- Integration of rig safety and zone-management systems enhances safety and efficiency.
- Network TCP/IP connection provides off-site remote support capability, enabling quick response for troubleshooting, software installation, and upgrades.
- The portable version an be operated in explosive atmospheres; it is compliant with ATEX (atmospheric explosive) certification requirements.

Tool Description

The HiPer control system is used for the remote control of the Weatherford suite of mechanized power tongs and tong-positioning systems. The system consists of certified explosion-proof rig-floor components, the Weatherford universal remote-control system (URCS), and a main control cabinet that can be installed in a safe area.

The URCS is an intrinsically safe, portable control panel that provides a practical, user-friendly interface that enables remote operation from a safe distance. Using modern computer technology and data mapping, the HiPer control system integrates with all major drilling control systems and can be used to communicate with the rig's anticollision system to avoid contact between Weatherford equipment and other rig-floor machinery. The HiPer control system is available in a portable version certified for use in hazardous areas.





HiPer control cabinet for local electrical room



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