

INNOVATIVE ELECTRONICS

I-DRILL

Model 9300

a **FIRMS®** modular component

"Quality by Design, Satisfaction by Performance"

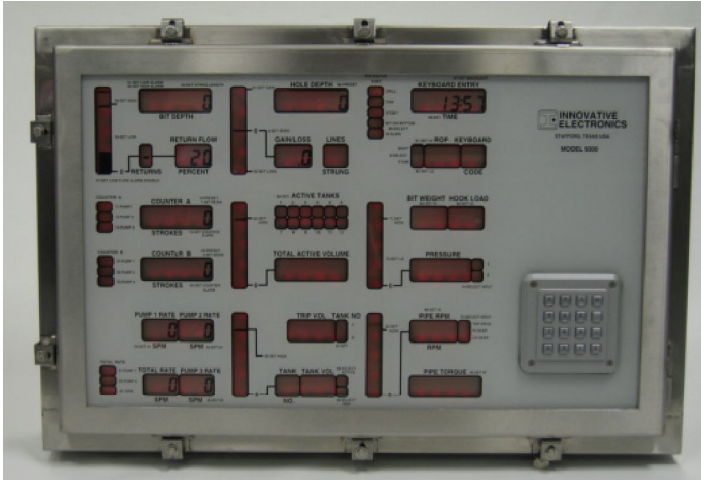
Reduce Operating Costs

Eliminate Factory Service Calls

Designed to be Installed, Commissioned and Maintained by **Rig Personnel!**

FEATURES:

- **Single Enclosure**
All major drilling parameters
- **Back-Lit LCD Displays**
Large, analog and digital displays
- **Expandable**
Easily expandable to collect additional rig information.
- **Modular**
Combine with our Intelligent J-Boxes, Gateways, IC Work Stations and other modules for complete rig monitoring and control
- **Interface To Other Remote Computer Systems**



Description:

The Model 9300 I-Drill LCD digital indicators display the following variables: total mud volume for up to 12 pits, individual volume of any one tank, 1 of 2 or both trip tanks, mud volume gain/loss, mud flow rate, pump stroke rates for up to three pumps, two assignable total stroke displays and total stroke rate for up to three pumps, Bit depth, ROP, Bit Weight, Hook Weight, Pump Pressure, RPM and Drilling Torque. For tripping, there is a mud returns indicator.

There are six programmable HIGH/LOW alarm bar graphs. These bar graphs are associated with individual tank volume, total active tank volume, volume gain/loss, return flow, Pump Pressure, RPM and selected tank volumes. When these alarms are exceeded, the alarming bar graph and the associated display flash and the audio alarm is activated.

The unit has two operational modes, CONFIGURATION and OPERATE, both accessible from the face mounted keypad. The CONFIGURATION mode is password protected and is used to accomplish all setup tasks including assigning input chan-

nels, set input offsets and spans, assign analog output channels and do other system setup tasks.

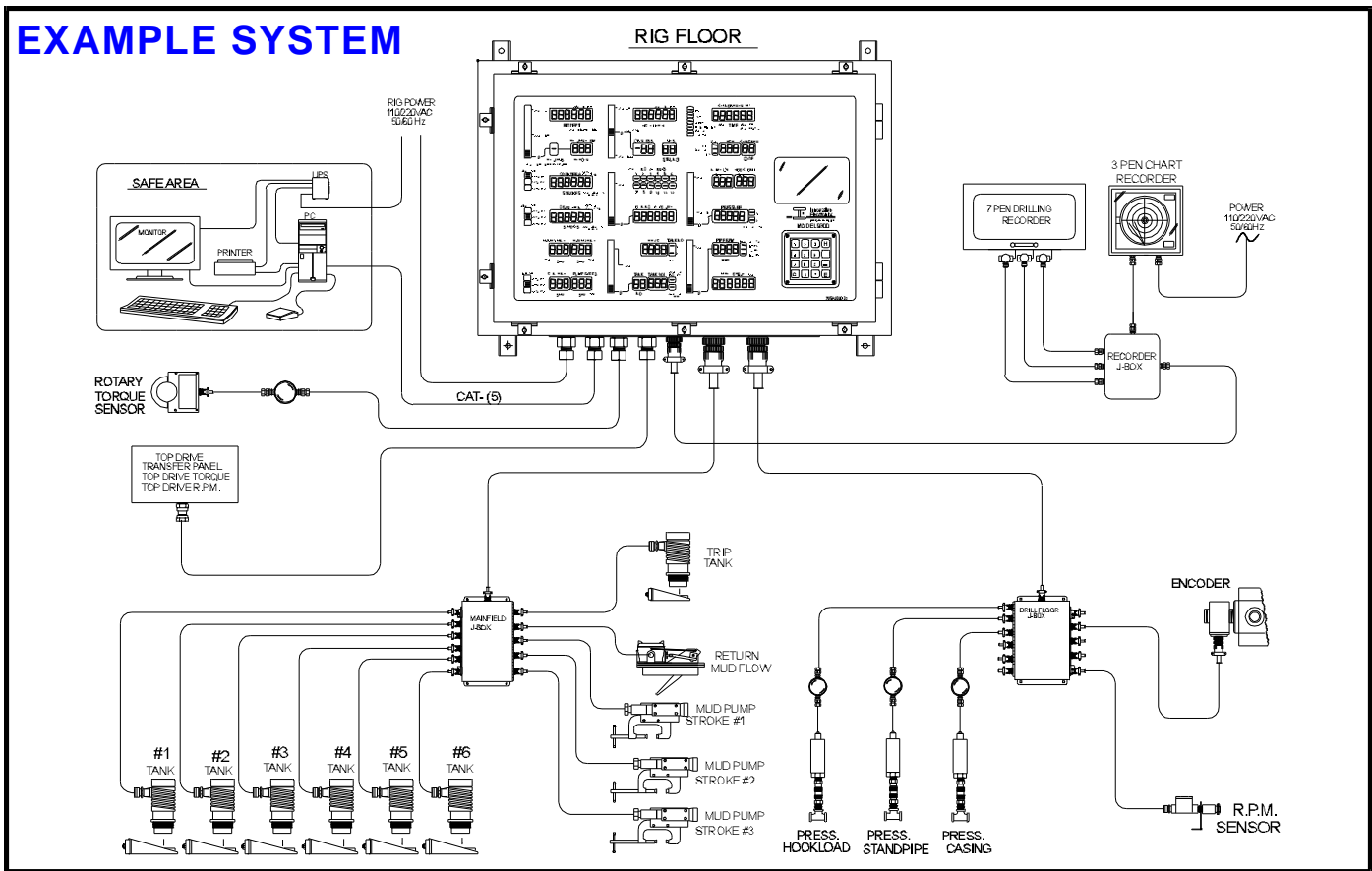
OPERATE is the normal operational mode used by the operator. In this mode the system collects and displays data. In the operate mode the operator can set time and date, activate and deactivate items, program high and low alarms, change display values, zero displays, turn back lighting on and off, and select various drill modes.

The basic unit comes complete with 20 analog inputs and 4 digital inputs. It is designed to be bulk-head mounted. Optional panel mounting hardware available.

The Model 9300 I-Drill includes three communication ports, one RS232, one RS 485 and one TCP/IP. These ports can be used for communication with remote computer systems.

Additional features include an interface board to allow current inputs, an eight channel analog output modules and intrinsically safe barriers for all channels.

EXAMPLE SYSTEM



Specifications:

Dimensions:	31.0"W x 20.5"H x 6.5"D (78,7 x 52,0 x 16,5 cm)
Power:	
Nominal:	115/230VAC 50/60Hz 135 to 370VDC
Brownout:	95 to 264VAC, 47 to 400HZ
Weight:	Approx. 47 lbs. (21.3kg)
Operating Temperature:	-40°to+185°F (-40°to +85°C)

System Flexibility:

The 9000 series consoles contain all required items including the DAQ and the computer. No external DAQ or laptop computer is required. The 9300 can be ordered with the optional analog meter that can be assigned to display any variable. For example, electric torque.

Innovative Electronics 9000 series systems are designed to be installed and commissioned by rig personnel. Our customers all over the world have reduced installation costs by successfully installing and maintaining their own systems.

Additional Information:

The 9000 series systems can interface with the Innovative Electronics **FIRMS**[®] (Fully Integrated Rig Management System), rig computer systems, logging computer systems. The I-Drill can be supplied in various configurations depending on requirements. Systems are available with or without cables and/or junction boxes, for permanent installation or for moving from site to site. These components can be combined with other Innovative Electronics packages for complete consoles containing both hydraulic and electronic gauges and instruments.

For similar systems see **MODEL 9100 I-MUD Jr.** and **MODEL 9200 I-MUD**

For Additional Information Contact:



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