

"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**  
Mud Flow-Fill, Mud Volume and SPM
- **Back-Lit LCD Displays**  
Large, analog and digital displays
- **Expandable**  
Easily expandable to collect additional rig information including RPM, PSI, Rotary Torque, etc.
- **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 9100 I-Mudjr 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 and one pump stroke rate. There are three programmable HIGH/LOW alarm bar graphs. These bar graphs are associated with total active tank volume, return flow and mud gain/loss. 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, SETUP and CONFIGURATION, both accessible from the face mounted keypad. The CONFIGURATION mode is protected by a password and is used to accomplish all setup tasks including assign input channels, set input offsets and spans, assign analog output channels and do other system setup tasks. OPERATE is the normal operational mode

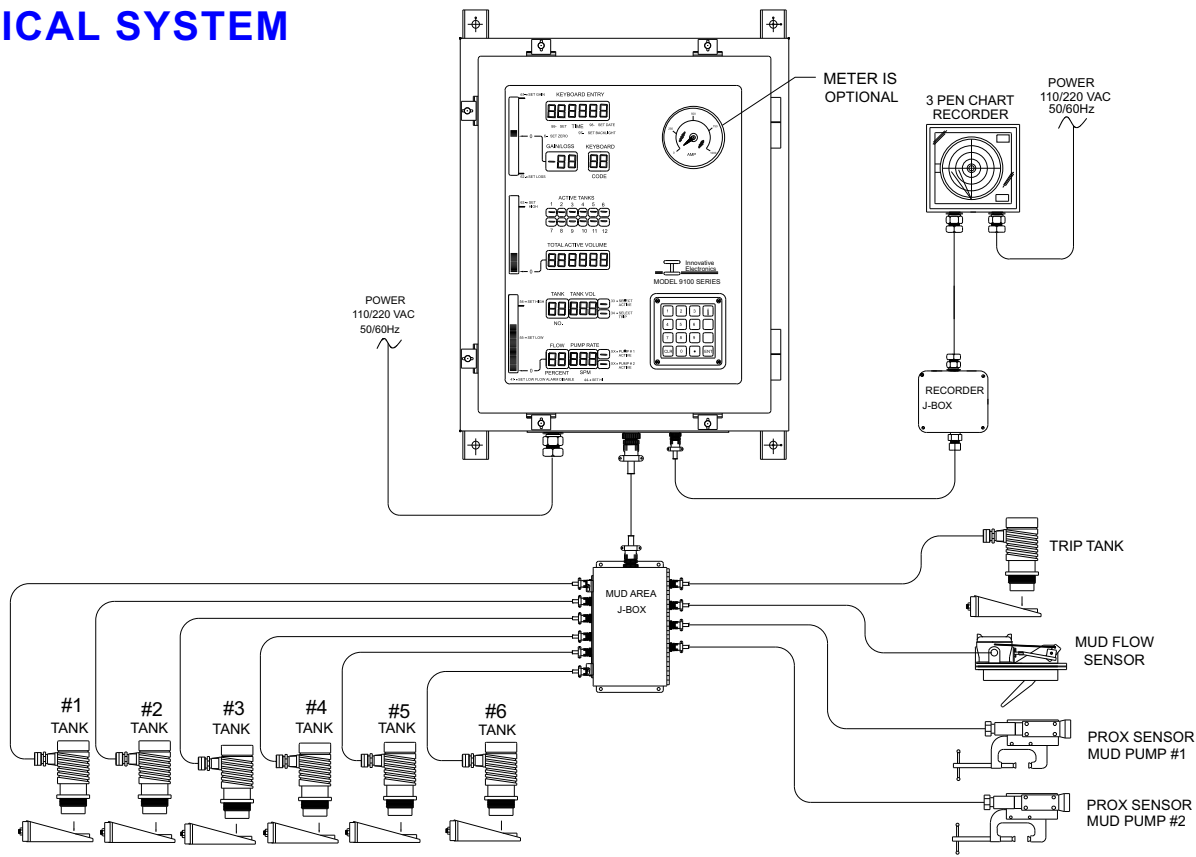
used by the operator. In this mode the system collects and displays data. In the operate mode the operator can set time and date, activate and deactivate items, program high and low alarms, change display values, zero displays, turn back lighting on and off..

The basic unit comes complete with 10 analog inputs and 4 digital inputs. It can be expanded internally to a total of 20 analog inputs. It is designed to be bulkhead mounted. Optional panel mounting hardware available.

The I-Mudjr includes RS232, RS485 and a TCP/IP port. 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.

# TYPICAL SYSTEM



## Specifications:

- Dimensions:** 18.5"W x 20.5"H x 6.5"D  
(46.9 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. 25 lbs. (11.3kg)
- Operating Temperature:** -40°to+185°F(-40°to +85°C)

## System Flexibility:

The 9000 series consoles contain all required items including the DAC and the computer. No external DAC or laptop computer is required. The 9100 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-Mud jr 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 9200 I-MUD.** and **MODEL 9300 I-DRILL**

## For Additional Information Contact:



P.O. Box 1367, Stafford, Texas 77497 U.S.A. • Phone: (281) 240-7355 • Fax: (281) 240-7356

[www.innelect.com](http://www.innelect.com)

E-mail: [sales@innelect.com](mailto:sales@innelect.com)

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