

The Bloodhound™

IR Gas Detection & Chromatograph System



Non-dispersive Infrared Sensors

- Accuracy $\pm 1\%$... 0 to 10,000 Gas Units
- Mud Log Software Compatible
- Rugged Packaging
- GPRS/Edge Data Radio System
- DSP (Digital Processing & Memory)
- Wireline & Wireless Communication
- Triple Redundancy of Data
- WITS Compatible via RS-422
- Failure Rate Less Than 3.8 % per yr
- 2-Year Warranty

The **Bloodhound™** is the most advanced mud logging gas detection system available. Gone are the days of drifting and zero adjustments due to temperature changes and the carbonizing of hot-wire elements or catalytic beads (pellistors).

The **Bloodhound™** is immune to saturation and can detect 0 to 10,000 Gas Units without manual intervention.

The system is calibrated at 2.5% and 100% methane utilizing National Institute of Standards Technology (NIST) calibration gases.

Linear detection with accuracy to 1% or less from 0% to 100% methane guaranteed. (Recalibration is recommended every 18 months.)

View real-time logging data via the Internet any time, anywhere. The **Bloodhound™** connects via Ethernet, satellite or GPRS wireless radio for instant access world-wide.

Data is stored in a comma-delimited unencrypted form for compatibility with the industry standard Microsoft ACCESS data base management and EXCEL. Further, all data is compatible with Well Sight Systems, MainLog and other mud logging software via LAS and XLS files.

Triple redundancy of data is provided through Internet storage, a USB Memory Flash Drive and the hard drive of any personal computer or laptop connected to the integrated USB or RS-232 Serial Port.



The Bloodhound™ is available from:

Myron Butler

405-341-2434

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Bloodhound™ Specifications

ITEM	NOMINAL	RANGE	DETAIL/NOTES
VOC DETECTION	C1 – C4	0 - 10,000 gas units	Non-dispersive Infrared Sensor detection of C-1 Methane, C-2 Ethane, C-3 Propane, iC-4 iso Butane and nC-4 normal-Butane
O ₂ DETECTION	+/- 1%	0 - 21%	Electro-Chemical O ₂ Sensor
CO ₂ DETECTION	+/- 1%	0 - 5%	Non-dispersive Infrared CO ₂ Sensor
H ₂ S DETECTION	+/- 1 PPM	0 – 500 PPM	Highly accurate 0.00 to 100.00 PPM range
VOC DETECTION ACCURACY	+/- 1%	0 -10,000 gas units	Every six (6) seconds of detection data is recorded
DATA COLLECTION and RETRIEVAL	All data applications included Upgrades provided at no charge	Application backward compatible to Windows 98	User access options: <ul style="list-style-type: none"> iBall Raw Data Viewer (Internet and local access) iBall Gas Chart (Internet and local access) iBall Web Page (no software required)
DATA TRANSFER	RS-232 serial	115,200 bps	Serial port speeds are configurable to allow connection to computer devices or other external hardware
	USB 2.0 type B	•	Reprogramming and communications via RS-232 or USB ports for software upgrades and future functionality
DATA BACKUP	USB	512 MB to 4 GB	Removable USB Memory Flash Drive on front panel
DISPLAY	Graphical LCD	•	Back lit transfective LCD
DATA COMPATIBILITY	File Format	•	Stored file format is compatible with Windows and Linux
	Applications	•	All file formats are compatible with Microsoft Access & EXCEL
EXTERNAL CHART RECORDER INTERFACE	Analog output for Recorders	10mv, 100mv, 1v	Used to connect the bloodhound to external analog monitors including analog chart recorders, data loggers or geolograph.
EDR SYSTEMS COMPATIBILITY	PASON	Level 0	WITS 8-pin RS-422 Connector, Pason compatible
	TOTCO	Serial / Ethernet	RS-232 Serial Interface or RJ-45 Ethernet connection
	EPOCH	Serial / Ethernet	RS-232 Serial Interface or RJ-45 Ethernet connection
RF MODEM	115 Kbs	GSM 3G/Edge	GPRS compatible Quad Band; 3Watt Booster available
POWER	110 VAC or 220 VAC or 12 VDC	90-260 VAC 9.5 -13.5 VDC	Designed to work with drilling rig power generation. Protection against over voltage, under voltage, unstable frequencies, high voltage spike protection and power surges.
	2,500 mA DC	100-500 mA AC	Efficient, Low-Current design
	Backup Battery	Up to 30 minutes	Gel Cell Battery Backup powers the Bloodhound™ System in the event of an AC Power failure.
	External Device	12 Volts DC	Powers external Cavitator or DC Powered Systems
ENVIRONMENT CONTROL	•	-20° to150° F	Internal Case Temperature Sensor and Alarm
	2 mmHg (constant)		Positive Case Pressure, Automatic Cooling Fan and Air Filtration (disposable filters)
PHYSICAL	Pelican™ reinforced Engineered Resin Case Dimensions: 22.06" x 17.93" x 10.43" (56 x 45.5 x 26.5 cm), Weight: 29 lbs (13.18 kg)		
WARRANTY	2-year Limited Warranty	The Bloodhound™ will be repaired or replaced at Manufacturer's discretion.	

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iBall Instruments® LLC

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