

# SURFACE INTERFACE BOX (SIB)

The Surface Interface Box is a complete MWD mud pulse decoding and data distribution system. The unit incorporates sophisticated filtering techniques for reliable data decoding in high noise environments from the Standpipe Pressure Transducer.

The unit also provides support for a Rig Floor Display and WITS connectivity, including and Ethernet connection. The SIB is directly compatible with the Geolink surface and downhole system, and is supplied in a robust, modular case for reliable field use.

## Key features include:

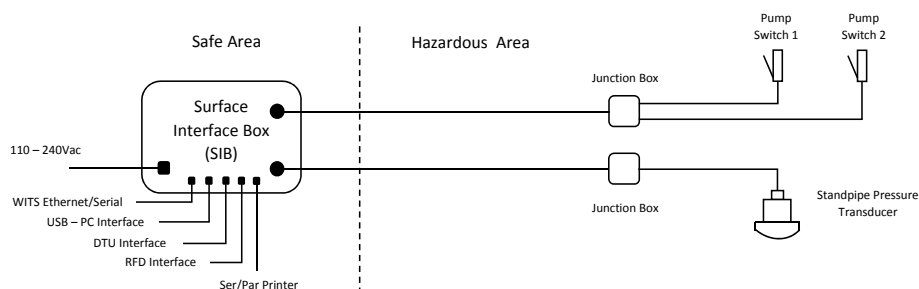
- ▶ Digitally adjustable internal filter clock
- ▶ Direct Standpipe Pressure measurement o/p
- ▶ Internal/external pump synchronisation
- ▶ USB Interface to PC
- ▶ WITS Serial and Ethernet support
- ▶ Adjustable low-pass filters
- ▶ RFD and Depth Tracking Unit interfaces
- ▶ Robust modular units
- ▶ Intrinsically safe sensor inputs



Description	Value	Units	Comments
I/O Peripheral	ASCII Terminal		
Input Transducers	Standpipe Pressure Transducer Pump Proximity Switches		4-20mA IS
Output	Thermal Printer/Data Interfaces Digital display – SPP Digital display – Pump Strokes		
Functions	Data decoding and distribution RFD Communication Depth Acquisition (DTU Comms) Signal Filtering WITS Communication		
<b>Electrical</b>			
Operating Voltage	110 – 240	VAC	(50/60Hz)
Hazardous Area Protection	IS Circuits		Intrinsically Safe barriers used for all Hazardous Area connections
Interfaces	5 x Serial RS-232 1 x Parallel LPT 1 x Ethernet 1x USB 1 x Test Connector		RFD, WITS, Printer, DTU, PC, Spare Parallel printer, PC Control WITS Server PC Data Interchange Internal signals
<b>Environmental</b>			
Operating Temperature	-20 to 50 -4 to 122	°C °F	
Storage Temperature	-20 to 70 -4 to 158	°C °F	
Vibration	5	g rms	50 – 1000Hz



SIB System Schematic:



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## Product Support

Azimuth Oilfield Systems Ltd. provides a responsive repair, calibration and product support service. Experienced personnel are available to troubleshoot or repair equipment, and provide general product technical assistance. If you need effective sensor support for your business, then contact [support@azimuthmwd.com](mailto:support@azimuthmwd.com) for more information.

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