

BOREHOLE SYSTEMS

PORTABLE BOREHOLE LOGGING SYSTEMS

ALT portable borehole logging systems offer a unique combination of versatility, ruggedness and ease of use. The systems may be easily transported, set up, and operated by one person. They are used worldwide in a diverse range of applications.



MATRIX – Logger

Matrix is a revolutionary system. It consists of a Digital Signal Processor (DSP) directly linked with the wireline through a pair of ultra fast high-resolution A/D and D/A converters. Telemetry details are handled by software providing unparalleled flexibility and upgrade possibilities. Matrix has been designed to accommodate Multi-vendor tool types. The modular and flexible design architecture of the system will allow virtually any logging tool to run on any winch.

Main features

- high speed USB interface, runs on any notebook PC compatible
- Windows 2000 & Windows XP
- Self selecting AC power source from AC 100V to AC 240V
- Ruggedised system, heavy duty, fault tolerant
- Totally software controlled
- Very easy to use, with graphical user interface (dashboard), self diagnostic features, configurable
- Real time data display and printing
- Support Windows supported printers
- Compatibility with downhole probes from other manufacturers



4MXA –1000 Winch

The system is equipped with slip ring and connections through which surface instrumentation can communicate with the probe.

A precision measuring wheel and rotary encoder are also included to allow the amount of cable played out to be tracked. The cable is automatically wrapped on the drum in even layers through the level wind mechanism. The motor is controlled by a 110V (or 220V depending on the model) four-quadrant motor speed controller that allows the speed to remain constant with a varying load and prevents overhauling with heavy loads. Dynamic electronic brake is a standard item

| | |
|----------------------------|--------------------------------------|
| Motor : | 1/4 hp, SCR type |
| Controller : | 4 quadrant, with current limit |
| Speed : | 0 to 85 ft/min (26m/min) |
| Load : | 46 kgs |
| Cable capacity: | 500m 1/8" dia.cable |
| Cable Off-axis tolerance : | 10°left, 10° right, 12° down, 45° up |



Probes



1 Fluid resistivity

Weight : 1.4 kgs
Length : .52cm
Diameter : 39mm
Measurement range :
Fluid resistivity : 0-100 Ohm-m
Temperature: -20°C - +80°C
Max pressure : 200 bars
Max temperature: 80°C

2 Caliper

Weight : 7.3 kgs
Length : 1.6m
Diameter : 39mm
Measurement range :
57 to 736mm (2.25" to 29")
Max pressure : 200 bars
Max temperature: 70°C

3 Elog (GR optional)

Weight : 8kgs
Length : 2.27 m
Diameter : 42mm
Measurement range :
64"N Et 16"N resistivity range : 1-10000 Ohmm
SPR : 1 to 10000 Ohms
SP: -2.5v to + 2.5v
Max pressure : 200 bars
Max temperature: 70°C

4 Flowmeter

Weight : 9 kgs
Length : .1.22m
Diameter : 42mm
(depends on cage / impeller configuration)
Measurement range : 2-70 m/min
Resolution : < 0.3 m/min
Max pressure : 200 bars
Max temperature : 70°C

The specifications are not contractual and are subject to modification without notice.