EZTEK™

EziLine Correlation System

The EziLine Correlation System is a complete system for API correlation logs and igniting electric detonators. The full system comes with a Perforating Panel, Safety Panel, Shooting GR/CCL Panel, Interface Panel, Printrex Printer, and Safety Key Assembly.

Benefits:

This is a flexible system that can be supplied according to client need.

Depending on requirements the system will be supplied as follows:

1. *Perforating Panel* – provides power required for detonating electrical igniters, also provides wire routing and shooting CCL detection. Available as a *Portable Perforating Panel*.
2. *Safety Panel* – combines Wellhead Potential Monitor, Single Conductor Safety Key and a TalkBack Intercom System in a single panel
3. *Shooting GR/CCL Panel* – supplies power suitable for most shooting Gamma Ray tools, separates and processes Gamma Ray pulses and Casing Collar Locator signal
4. *Interface Panel* – designed to interface analogue signals from surface and downhole sensors with a standard PC, designed for use in conjunction with Ezquire Correlation Software
5. *Printrex Printer*
6. *Transit Case Kit*
7. *Safety Key Assembly* – as per client specification

Typical Applications:

- Wireline applications

Features:

- Complete system for API correlation logs and igniting electric detonators
- Complies with API RP67 standard
- Can be used with all logging systems
- Connects to standard PC via USB port
- Portable or permanent mount
- Includes data logging software
- Send to Printrex continuous printer, A4, Bitmap and PDF
- Perforating panel complete with off-the-shelf EFI and EBW firing tools

Portable Perforating Panel –
Our Perforating Panel supplied in a rugged pelicase.

- Requires minimal storage space
- Low weight (<22Kg) makes it ideal for jobs that require it to be transported via air

Improve efficiency.
Increase safety.
Reduce costs.

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Perforating Panel	
General	• Mains supply 115 and 230 VAC (+/-10%) / 40 to 70 Hz (automatic switching using Eztek autovolt circuit) • 3 "U" high 19" rack mountable panel enclosure (360mm deep) • Wireline In/Out via Lemo connectors
Wireline Routing	• Routing for single conductor wireline • 'Secondary' Safety Switch with double contacts and removable key (Safe position only) • 3 pos. Selector switch – Log/Active GR CCL/Perforate • 3 pos. Selector switch – Correlate/Positive/Negative • 'Active GR/CCL' position – routes Wireline to the Shooting GR/CCL interface panel • 'Log' position – routes wireline to logging system for other logging operations
Perforating Supply	• 0 to 300 VDC output, positive and negative (unregulated) • 0 to 3 amps • 'Secondary' Safety Switch with double contacts and removable key (Safe position only) • Analogue voltage and current meters • Four control action for firing of which two switches are momentary and limit witch of variac to comply with RP67 • 1 / 3 Amp Current Range Switch • Internal Ripple Filter – smoothing capacitors and automatic capacitor discharge on power down
CCL Detection Circuit	• Double sided rectification of CCL signal for improved presentation of true CCL signal • Buffered line output for presentation of unprocessed line signal • Gain adjustment from front of panel

Safety Panel	
General	• Wide range Mains input (100 to 250 VAC / 47 to 65 Hz) • 2 "U" high 19" rack mountable panel enclosure
Wellhead Potential Monitor	• Back lit LCD display, continuously displaying potential between well head and truck chassis and cable resistance • Audible alarm pre-set for 0.25 Volts and 50 Ohms • 50 metres cable with single "G" clamp for connection to well head for WHP • 50 metres cable with double "G" clamp for connection to well head for grounding the truck • Zener barrier for WPM
Mono-conductor Safety Key	• Key switch with "SAFE" – "OPERATE" position; key removable in "SAFE" position only • Wireline In/Out via Lemo connectors
TalkBack 2 Way Intercom System	• Push to Talk button • Independent local and remote volume controls • Remote loudspeaker/microphone • 50 metres braided 2 core cable • Mains supply 115 and 230 VAC (+/- 10%) / 40 to 70 Hz (automatic switching using Eztek autovolt circuit) • Diecast TalkBack Master Station enclosure

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Shooting GR/CCL Supply and Interface Panel

General	
	• Mains supply 115 and 230 VAC (+/-10%) / 40 to 70 Hz (automatic switching using Eztek autovolt circuit)
	• 2 "U" high 19" rack mountable panel enclosure
	• Supply for shooting GR/CCL with maximum CHV of 140 VDC and 100 mA (this covers all shooting GR/CCL tools that we know)
	• Sophisticated GR pulse detection (positive and negative) and CCL signal processing, providing TTL level processed pulses and DC-CCL signal
	• Voltage and current output for display and recording on any logging system (0 to 7.5 Volts for 0 to 150 Volts surface voltage and 0 to 10 Volts for 0 to 100 mA tool current)
	• Panel meters for surface voltage and tool current
	• Oscilloscope output for verification of line signal, pulse picking, etc.
	• No current isolation circuitry and momentary override switch

Interface Panel

General	
	• Wide range Mains input (100 to 250 VAC / 47 to 65 Hz)
	• 2 "U" high 19" rack mountable panel enclosure
	• Connects to notebook PC via USB connection
	• CCL output from Perf. Panel and GR/CCL output from EZ5507A connect directly to this panel
	• Auxiliary input for two 4 to 20 mA sensors (e.g. two pressure transmitters for connecting to hydraulic load cell and well head)
	• Remote depth and speed display c/w 100 metres of cable on drum
	• 100 ppr Hohner depth encoder c/w 100 metres of cable on drum
	• Windows software comes free with the system. Ezquire Software c/w API Header and Log printing

Printrex 842DL/G-QF

General	
	• 19" rack mount Printrex Printer
	• 4"/sec printing speed
	• USB interface

Transit Case Kit

General	
	• 2 of 6U Transit cases c/w front and rear covers
	• Set of interconnecting cables between panels
	• Mains distribution included
	• USB hub

Safety Key Assembly (Single Conductor)

General	
	• Die cast enclosure
	• Safety key with 2 way selection
	• 2x 20mm gland holes
	• Screw terminal connection
	• 2-4mm patch sockets (red for conductor, black for armour)
	• Conformity with API-RP 67 Oilfield Explosives Safety

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