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# 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

***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



## 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

*Improve efficiency.*
*Increase safety.*
*Reduce costs.*



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# EziLine Correlation System

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

| Safety Panel | |
|---|---|
| General | • Wide range Mains input (100 to 250 VAC / 47 to 65 Hz)<br>• 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<br>• Audible alarm pre-set for 0.25 Volts and 50 Ohms<br>• 50 metres cable with single "G" clamp for connection to well head for WHP<br>• 50 metres cable with double "G" clamp for connection to well head for grounding the truck<br>• Zener barrier for WPM |
| Mono-conductor Safety Key | • Key switch with "SAFE" – "OPERATE" position; key removable in "SAFE" position only<br>• Wireline In/Out via Lemo connectors |
| TalkBack 2 Way Intercom System | • Push to Talk button<br>• Independent local and remote volume controls<br>• Remote loudspeaker/microphone<br>• 50 metres braided 2 core cable<br>• Mains supply 115 and 230 VAC (+/- 10%) / 40 to 70 Hz (automatic switching using Eztek autovolt circuit)<br>• 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)<br>• 2 "U" high 19" rack mountable panel enclosure<br>• Supply for shooting GR/CCL with maximum CHV of 140 VDC and 100 mA (this covers all shooting GR/CCL tools that we know)<br>• Sophisticated GR pulse detection (positive and negative) and CCL signal processing, providing TTL level processed pulses and DC-CCL signal<br>• 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)<br>• Panel meters for surface voltage and tool current<br>• Oscilloscope output for verification of line signal, pulse picking, etc.<br>• No current isolation circuitry and momentary override switch |

## Interface Panel

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

## Printrex 842DL/G-QF

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| General | • 19" rack mount Printrex Printer<br>• 4"/sec printing speed<br>• USB interface |

## Transit Case Kit

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

## Safety Key Assembly (Single Conductor)

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

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