

- Compact & Lightweight chassis
- IEPE/Charge amplifier, channel selectable
- Individual channel gain selection x1, x10, x100
- Power on indication
- Signal level indicator per channel
- $\pm 10$ VAC output
- DC powered; Mains adaptor supplied
- Huge flexibility in a low cost per channel unit.



The 3X-CI is a 3 channel IEPE and charge signal conditioning unit, housed in a compact and rugged chassis. Featuring DC power input, it can be used via the supplied mains DC adaptor or via a field-based DC supply such as battery.

Each channel can be independently switched to be IEPE or Charge signal conditioning. In addition, each channel has independent gain control x1, x10, x100. Signal input and output connections are via front panel BNC jack connectors, making connection quick and simple. An earth/floating switch is also included on the rear panel

A signal level indicator is also provided for each channel via a multi coloured LED when in IEPE mode:

- Green – OK
- Red – Short circuit
- Off – Open circuit

| Gain setting | Input/Charge | Input/IEPE | Output |
|--------------|--------------|------------|--------|
| X1           | 1pC          | 1mV        | 1mV    |
| X10          | 1pC          | 1mV        | 10mV   |
| X100         | 1pC          | 1mV        | 100mV  |

| Specification                  |                                                                                                          |                 |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----------------|
| Channels                       | 3                                                                                                        |                 |
| Power Input                    | 9 – 30 Volts DC, 5 Watt. (nominal 18VDC)                                                                 |                 |
| Power connection               | 2.1mm DC Socket                                                                                          |                 |
| Signal Connections             | BNC Jacks - Input and Outputs on front panel                                                             |                 |
| Indicators - Power             | External LED indicator shows correct power to unit                                                       |                 |
| Indicators - Signal            | Multi coloured LED per channel, <b>Green</b> – OK/ <b>Red</b> – Short Circuit/ <b>OFF</b> – Open Circuit |                 |
| Floating or Ground             | Selectable via rear panel switch                                                                         |                 |
| IEPE power (only in IEPE mode) | 24VDC, 4mA                                                                                               |                 |
| Signal level output            | $\pm 10$ VAC pk-pk                                                                                       |                 |
| Dimensions                     | Height - 123mm, Width 45mm, Depth 196mm                                                                  |                 |
| Weight                         | 570grams                                                                                                 |                 |
| Operating Temp.                | 0 to 45 °C, non-condensing.                                                                              |                 |
| Broadband Electrical Noise     | (1 to 10,000Hz) (Gain x1)                                                                                | 48.1 $\mu$ Vrms |
|                                | (1 to 10,000Hz) (Gain x10)                                                                               | 79.7 $\mu$ Vrms |
|                                | (1 to 10,000Hz) (Gain x100)                                                                              | 498 $\mu$ Vrms  |
| Bandwidth                      | Gain x1                                                                                                  | 500kHz          |
| Bandwidth                      | Gain x10                                                                                                 | 500kHz          |
| Bandwidth                      | Gain x100                                                                                                | 100kHz          |

Due to continued product development Kemo Limited reserve the right to change specification without notice.

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