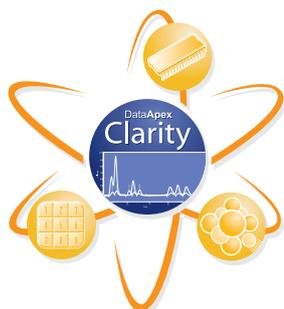


# Zebrick



## D/A and D/f converter for USB port that enables direct gradient control of LC Pumps

Zebrick is designed for controlling LC pumps that can be driven by frequency or voltage. The external USB device expands capabilities of the Clarity Chromatography Software.

### Details of the Zebrick D/A and D/f converter:

- 4 D/A and 4 D/f converters
- 8 auxiliary logical inputs and outputs
- Powered from the USB port
- Allows mounting on a rack
- Replaces CB20 PCI card

CLARITY SOFTWARE

CONTROLS

EXTENSIONS

HARDWARE

## Direct gradient control

Clarity enables direct gradient control of the HPLC pumps. The high pressure gradient is created from up to four individual gradient components where each is delivered by individual pump. Desired flow rates of each gradient component and their overall sum can be monitored in the independent Device Monitor.

**3 YEARS  
WARRANTY**



## Control of your pumps from Clarity

The LC Control is available as an option to the Clarity software. The gradient control is accomplished using the Method Setup – LC Control and Device Monitor dialogs accessible from the Instrument window. The user can easily create a gradient method from the LC control window and set a percentage of each gradient component and an overall flow rate in the gradient table. These parameters, including control of pump behavior in the Idle state, are a part of the method. Therefore, it is possible to create various gradient profiles and choose - only by loading - the corresponding method.

## Most common pumps you can control by Zebra

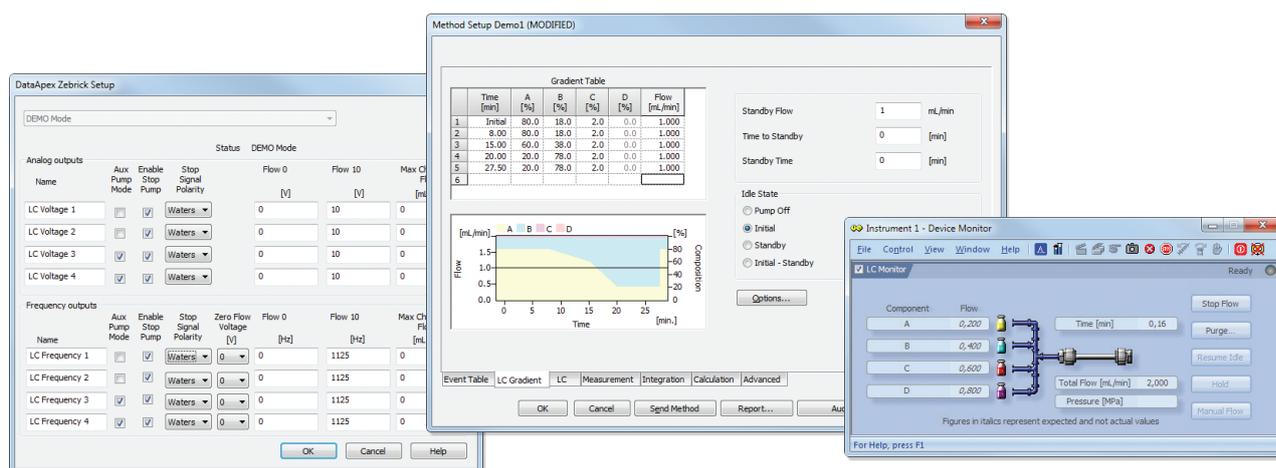
### Pumps driven by frequency:

- Waters – M-45, 501, 510, 515, 6000
- Ecom – LCP 4000
- UNICAM – PU 4015
- and others

### Pumps driven by voltage:

- Shimadzu – LC6A
- Ecom – LCP 4020
- Beckmann – Altex 110,114
- Sykam – S 1021, S1122
- Knauer – M64, K-500
- and others

Please see the specification in your pump manual to determine if it allows control by voltage or frequency. For latest list of controlled instruments visit [www.dataapex.com/products/controls.php](http://www.dataapex.com/products/controls.php) or download the datasheet **D004 - List of controlled instruments**.



## Technical Data

- Analog (voltage) outputs:** 4 channels equipped with 16 bit D/A converters
- Voltage range:** -10 V, +10 V
- Frequency outputs:** 4 channels equipped with 28bit D/f converters
- Frequency range:** 0 Hz - 100 kHz
- Digital inputs:** 8 TTL (5 V)
- Digital outputs:** 8 TTL (5 V, maximum current load 20 mA)
- Dimensions:** 105 x 124 x 22 mm (W x H x D)
- Weight:** 240 g
- PC interface:** USB
- Power source:** USB, no external power adapter required

## Specification

- Part No.:** B30
- Related products:** Clarity Software – Part No. C50 (required)  
LC Control – Part No. A24 (required)
- Warranty:** 3 years
- Cables included:** Part No. KBCB, 2V + 2f, length 3m, modification upon request  
USB Cable, Part No. SK10, length 1.8m

