

1. Introduction

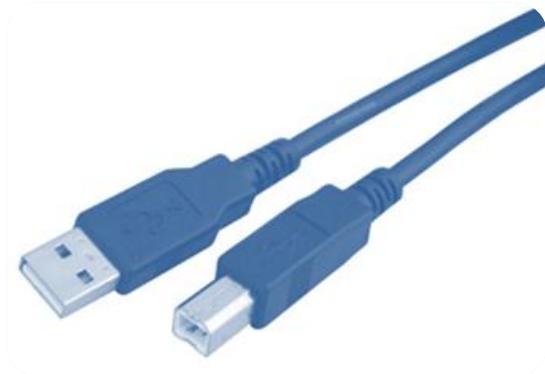
With the USB controller interface you can use the knobs, pistons and buttons of the keyboard of your organ to access main control functions of the Diapro software.

2. Jellemzők:

- USB 2.0 támogatás
- Nincs szükség külső áramforrásra
- A 4 legfontosabb funkció vezérlése (előre, hátra, vetít ki/be, következő ének)
- Státusz és Power LED
- Nincs szükség külön driverre Windows XP SP2 alatt
- Felfogási pontok az áramkörön az egyszerű rögzítéshez

3. Installation:

1. Connect the interface to a USB port of your computer:
2. The operating system recognizes the device.
3. Connect the buttons to the pins.
4. Make sure that the OS detected and installed the device. In Windows XP, take look at Device Manager and check that a new HID Keyboard is appeared in the 'Keyboards' section.

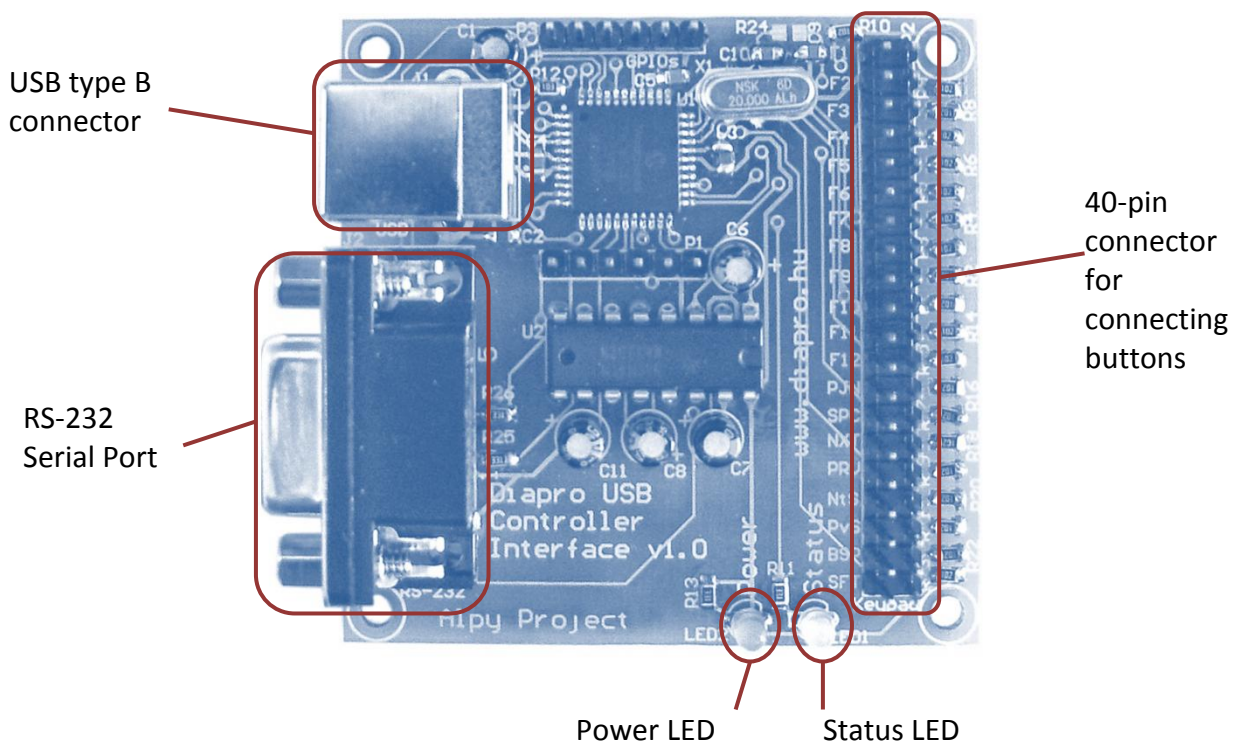


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4. Connecting buttons:

- Step forward - NXT
- Step backwards – PRV
- Next song– NtS
- Projection ON/OFF – PJN

5. Overview:



By connecting the interface to the computer the green LED indicates when the power is on. Yellow LED flashes when any of the pins are short-circuited. The functionality of each pin is labeled next to it. By shortcutting a pair of pins you call the function assigned to it.

Example: We want to step to the next song in our list. Just short-circuit the pins: "NtS"

6. Specification:

Interface	USB 1.1, USB 2.0 compatible
Average current	35mA
Peak current	50mA
Supply voltage	5V from USB power line
Impulse rate	50 impulse per second
Processor	Microchip PIC18F4550
External oscillator	20 MHz
Internal clock	48 MHz
Dimensions (width x length x height)	59 x 57.5 x 19 (mm)
Weight	25g
List of inputs	PJN (projection ON/OFF), NXT (step forward), PRV (step backwards), NtS (next song)