

Introduction to the new Emotron Control Board V2.1

Emotron's new Control Board V2.1

A new Control board for our Emotron FDU and VFX AC-Drive series in the IP2X and IP54 variants is currently being finalized.

Hand-in-hand with this new Control Board we will increment the existing control - platform to revision 2.1 what will also be clearly recognizable in the product names as **FDU2.1** and **VFX2.1**.

With this new control platform, we have laid a strong foundation for future further expansions of features, functions and application specific variants.

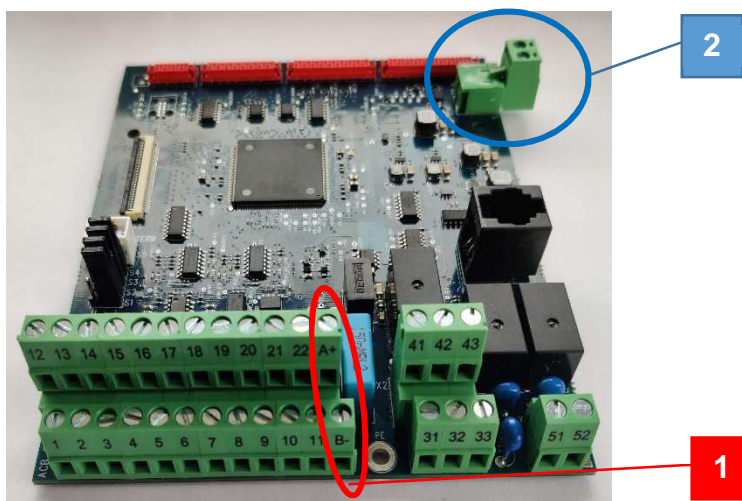


Figure 1 – the new Control Board V2.1

As the above picture in Figure 1 shows, this new Control Board V2.1 still has the familiar I/O terminal strip interface, with the following standard new additions:

1. An insulated RS485 serial communication input, via the new to the existing I/O terminal strip added terminals A+ and B-. This also makes it possible to use another communication bus option simultaneously.
2. A connection for an external 24VDC Standby Power Supply, to keep the used field- or Industrial Ethernet communication bus option alive even during a complete loss of the mains supply. This will prevent interruptions on the used bus system.

The software for this V2.1 platform will be upgraded to revision V5.xx, and offers for example the following additions: a “kWh-pulse” signal via digital/relay output, Fire Mode function, SpinStart function for PM motors, improved V/Hz Drive Mode (in VFX2.1), Speed Droop Control, improved Flux Optimization options, Motor I²t Limit with minimum speed limitation, and the Brake Chopper option active in STOP mode.

The market launch of these new **Emotron FDU2.1** and **Emotron VFX2.1** series is expected around summer 2020.