iPAK2 CPU

Medium Frequency DC constant current control and proportional force control for spot, projection and seam welding applications, up to 6000A primary current, 500,000A secondary current.

- Mounts directly to IPAK and iPAK2 inverters.
- Pendant , Modbus , NetFlash programming.

FEATURES

- 256 weld programs (schedules).

- 3 weld Intervals — Pre-heat + Main weld + Post heat.

- Cascade / multivalve operation.

- Up to 8 transformers and 8 main valve (WAV) outputs.

- 7 auxiliary valves under program control.

- 16 Inputs/ 16 Outputs (short circuit protected). Dedicated function.

- Secondary or Primary current regulation.

- Ethernet (2 simultaneous connections).

- RS232 Port.

- RS485 Port.

- Analog Port connects to Proportional Valve for weld force control , or can output a measured current waveform. Can also be used for direct analog control function.

- Force profiling.

- Electrode manager (Stepper functions) for up to 8 electrodes.

- Current and force monitor.

- Seam mode—change programs 'on the fly', up to 8 MOTOR command outputs.

- Standard features mode reduces the available options for simple applications.

- Feature and programming format common with EN7000 AC control.

- EtherNet/IP supported via plug-in adapter option.

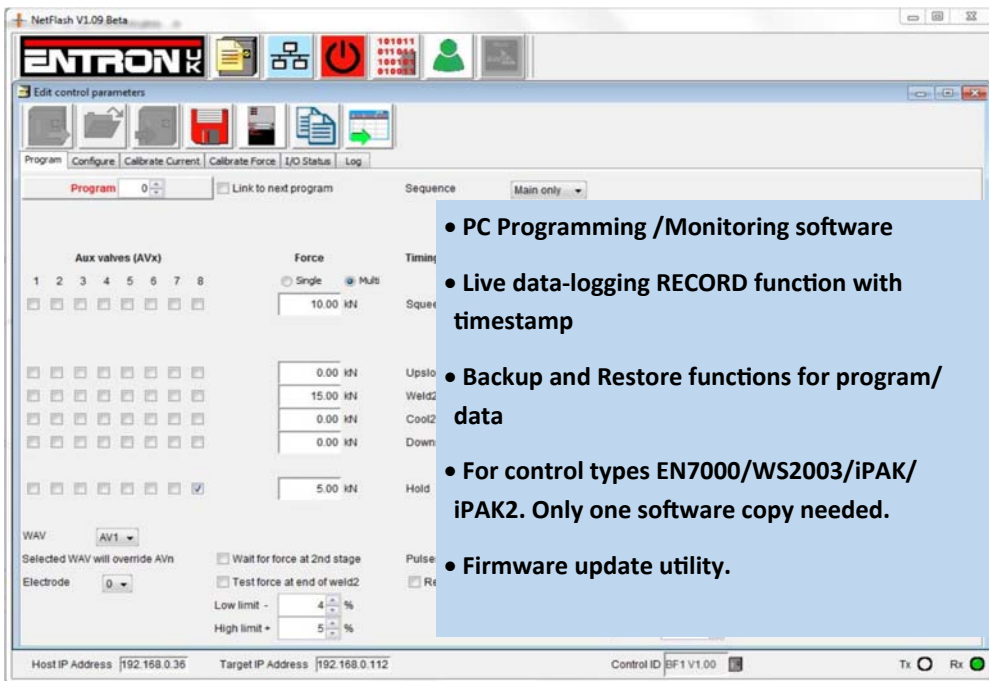| Comparison of iPAK2 with iPAK	iPAK	iPAK2
Compatible with iPAK inverter	✔	✔
Compatible with iPAK2 inverter	✔	✔
Weld Programs (schedules)	64	256
Weld intervals	2	3
Duty-cycle limiter	✘	✔
Real-time clock	✘	✔
Data log entries	64	6144
Direct MUX drive	✘	✔
Analog control mode	✘	✔
Safety relay	✘	✔
Short circuit proof outputs	✘	✔
Air-valve outputs	2	8
WSP3 programming	✔	✔
NetFlash programming	✔	✔
Ethernet ports	0	2
RS485 ports	0	1
Commonality with EN7000	✘	✔

Example: Complete iPAK 600A system.

Example: Complete iPAK 600A system with 4 transformer outputs.

iPAK2 CPU

NetFlash PC Software for Ethernet (option)

Easy to use Networked PC. Access iPAK, iPAK2,WS2003, EN7000.

- PC Programming /Monitoring software
- Live data-logging RECORD function with timestamp
- Backup and Restore functions for program/ data
- For control types EN7000/WS2003/iPAK/ iPAK2. Only one software copy needed.
- Firmware update utility.

WSP3 Pendant (option)
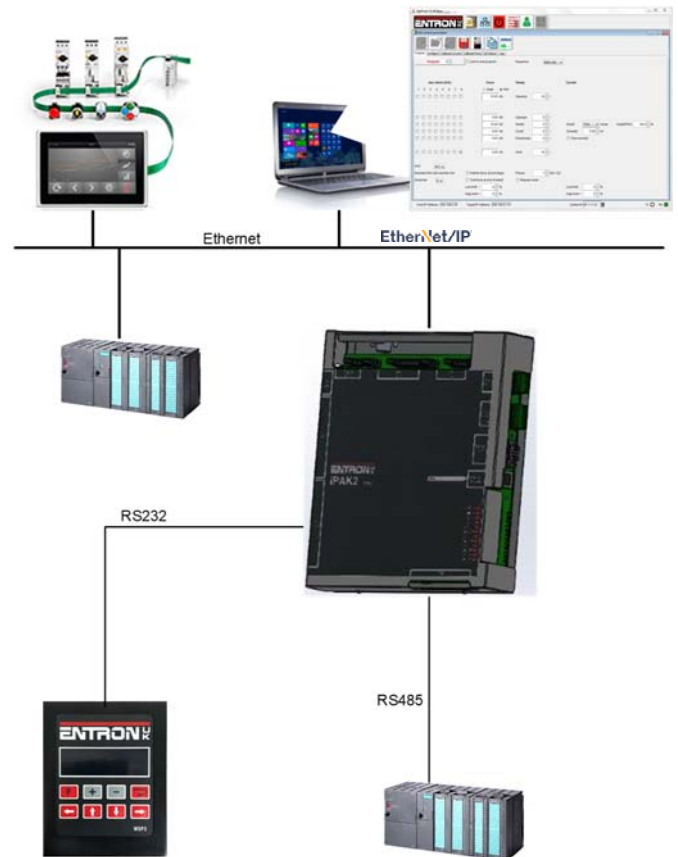
Easy, intuitive 4 line display

MULTIPLE COMMUNICATIONS SUPPORT :

Modbus-TCP/IP (Ethernet), Modbus-RTU (RS485), RS232 all built-in. EtherNet/IP and other Fieldbuses supported via plug-in adapter option.

MULTIPLE CONTROL METHODS: Discrete I/O plus analog 0-10V, Modbus TCP/IP (Ethernet), Modbus-RTU (RS485), EtherNet/IP.

PROGRAMMING METHODS : Pendant (RS232), HMI RS485 , HMI or PC software Ethernet TCP/IP, EtherNet/IP.

DATA-LOGGING (Spot mode): Internal data-logging up to 6000 records. Data can be recorded to hard drive through NetFlash.