INGENIERIA MEXICANA UNIDA

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.

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	×	v
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	×	 ✓



 Mounts directly to IPAK and iPAK2 inverters.

• Pendant, Modbus, NetFlash programming.



Example: Complete iPAK 600A system.



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

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iPAK2 CPU

NetFlash PC Soware for Ethernet (opon)

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

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P3 Pendant (opon) Easy, intuive 4 line display

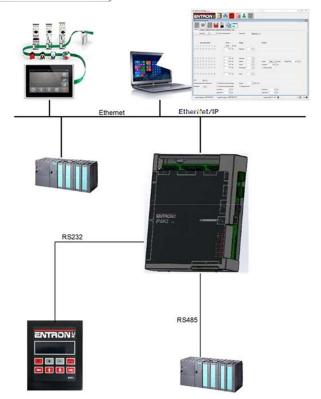
MULTIPLE COMMUNICATIONS SUPPORT :

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

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 soware 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.



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