United
PROCESS CONTROLS

FOR RETROFITS & NEW FURNACES

WITH PROTHERM CONTROLLER

Need to be NADCAP, CQI-9, NFPA 86-C or ASM 2750D compliant? UPC solutions offer:

- expanded recipe control including automatic leak test cycles
- guaranteed soaks based on multiple work thermocouples
- built-in uniformity survey capability
- temperature control with multiple PID sets for increased uniformity and overshoot control

Brands: ATMOSPHERE ENGINEERING | FURNACE CONTROL Corp | MMi Marathon Monitors Inc | PE PROCESS-ELECTRONIC | WAUKEE ENGINEERING company,inc.

VACUUM CONTROL SOLUTIONS

United
PROCESS CONTROLS

STANDARD EQUIPMENT

- Protherm 500, 600 or 700 controller (see separate brochures for more details)
- Hi-Limit controller
- Steel plate (mountable) or cabinet (enclosure)
- DIN mounted hardware
- Pre-wired with terminal blocks & isolation relays
- Electrical drawings / user manual

MAIN FEATURES

- Multiple load thermocouple inputs for soak guarantees (expandable)
- Interfaces with most vacuum gauges
- Local process data logging and charting
- Recipe control of partial pressure setpoints, guaranteed soak, ramp rates, events and quench gas selection
- Furnace temperature control with multiple PID sets for overshoot control
- Alarm notification and processing including process tolerance alarms
- Password protected interface
- Real time and historical paperless chart recorder displaying process variables
- Recipes and templates can be created and modified
- Diffusion pump temperature monitoring

OPTIONAL FEATURES

- Up to 12 work T/Cs supplied as standard option. More T/Cs available upon request.
- Additional D/O and D/I are possible.

INTEGRATION / CONNECTION

- Integrated web server
- PLC interfaces:
  - CANopen
  - DeviceNet
  - RS485/422 4 wire Modbus / J-bus
  - RJ45 Ethernet LAN
  - Modbus / TCP
  - Optional Profibus slave or master
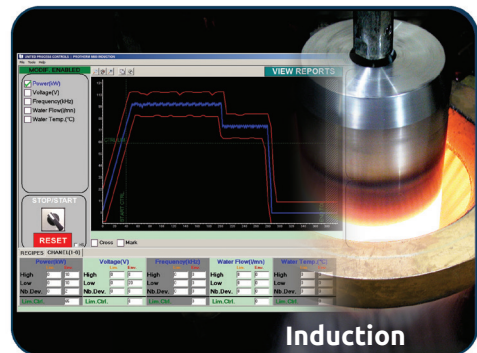- Seamless integration with SCADA

OTHER CONTROL SOLUTIONS

Annealing

Carburizing

Induction

Nitriding

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USA	CANADA	CHINA	FRANCE	GERMANY	POLAND
+1 414 462 8200	+1 514 335 7191	+86 21 3463 0376	+33 3 81 48 37 37	+49 7161 94888 0	+48 32 296 66 00
sales.na@group-upc.com	sales.na@group-upc.com	sales@mmichina.cn	sales.fr@group-upc.com	sales.de@group-upc.com	sales.pl@group-upc.com

www.**group-upc**.com

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