

FPX-05 SWAP TECHNICAL FEATURES



FUNCTION	EXPLANATION
FULL CUSTOMIZABLE P.I.D. CONTROL	PROPORTION, INTEGRATION, AND DIFFERENTIATION VALUES CUSTOMIZABLE FOR FLEXIBLE SOLUTIONS
DOUBLE DISPLAY	IT ALLOWS TO SEE THE SET-POINT AND ALSO THE MEASURED TEMPERATURE
SOFT START	PRE-HEATING WITH LOW PERCENTAGE OF POWER
AUTOTUNING	IT ALLOWS THE SYSTEM TO GET THERMAL INERTIA OF THE LOAD TO BE CONTROLLED AND AVOID OVERTEMPERATURE
RATE OF POWER IN USE	YOU CAN CHECK RATE OF POWER USED AND SET IT FOR OPEN LOOP MODE
OVERSHOOT CONTROL	NO OVERSHOOT OCCUR
CLOSE LOOP CONTROL (AUTOMATIC MODE)	YOU HAVE TO JUST SET WORKING TEMPERATURE IN THE SYSTEM
OPEN LOOP CONTROL (MANUAL MODE)	YOU HAVE TO SET THE PERCENTAGE OF POWER TO SUPPLY THE HEATER
THERMOCOUPLE BREAK ALARM	WHEN THERMOCOUPLE SIGNAL IS NOT AVAILABLE (BECAUSE THERMOCOUPLE LEADS HAS BEEN CUT OR SIMPLY THERMOCOUPLE WIRE IS NOT PROPERLY WIRED IN A CONNECTOR) IT IS IMPOSSIBLE TO WORK IN CLOSE LOOP. IT IS NECESSARY TO WORK IN OPEN LOOP WHICH MEANS MANUAL MODE : THE SYSTEM NEEDS TO SET THE DESIRED RATE OF POWER (PERCENTAGE)
INVERTED THERMOCOUPLE ALARM	WHEN THERMOCOUPLE WIRING IS NOT CORRECT (POSITIVE WIRE IS CONNECTED TO NEGATIVE POSITION) THE SYSTEM SUPPLY A SPECIFIC ALARM WHICH INFORMS OF THE MISTAKE. IT IS NECESSARY TO SIMPLY CHANGE THERMOCOUPLE WIRING
HEATER BREAK ALARM	WHEN HEATER OR FF FUSE IS BROKEN AND IT DOESN'T HEAT, SUCH ALARM INFORMS OF THE FAILURE (MAYBE THAT THE HEATER HAS TO BE CHANGED BYT MAYBE THE HEATER IS NOT WIRED CORRECTLY IN THE CONNECTOR, THEREFORE IT IS NECESSARY TO SIMPLY CORRECT WIRING)
TRIAC FAILURE ALARM	TRIAC IS IN SHORT CIRCUIT
SWAP FUNCTION	VERY IMPORTANT : AS IN CASE OF THERMOCOUPLE BREAK, THE SYSTEM SWITCHES INDEPENDENTLY FROM CLOSE LOOP TO OPEN LOOP (MANUAL MODE) AND IT CONTINUES TO WORK USING THE CORRECT RATE OF POWER CALCULATED DURING THE LAST 180 SECONDS AT SET-POINT TEMPERATURE. THIS WAY PRODUCTION IS NOT STOPPED