

Temperature Controller SY325 for policombustible Boilers/Stoves PRODUCT COMPOSITION: A. Temperature controller SY325 B. Temperature probes to read: Smoke Temperature in teflon cable 0 - 260 °C Smoke temperature through K Thermocouple 0 – 550 ℃ • Combustion Temperaure through K Thermocouple 0 – 1200 ℃ Ambient Temperature 0 - 50 °C C. Photoresistence D. Other probes (to be defined) **1) HARDWARE CHARACTERISTICS** A. Controller SY325 **INPUT:** Total LowVoltage available inputs n. 09 To read: 1. Smoke temperature 2. Temperature K Termocouple 3. Boiler water temperature 4. Warm water temperature 5. Ambient temperature 6. Fluxstate 7. Level Pellet Sensor 8. Input GSM to start\stop the stove through SMS 9. Flame presence 10. Boiler water pressure 11. Number of smoke fan rpm with the use of an encoder 12. Others: ✤ Boiler stratified temperature Solar panel temperature for integrated systems Other.. Available INPUTS HighVoltage (230Vac) n. 01 To read: 1. PRESSURESTATE (smoke evacuation) 2. SECURITY THERMOSTAT (manually rearmed) 3. Other... Available OUTPUTS n. 08 To Control: 1. Auger Motor (230 Vac) regulated in ON\OFF modality 2. Combustion/Exhaust Fan with two possible regulations: per cent and rpm(encoder) 3. Pump\Circulator 4. Warm water Pump\Circulator 5. Igniter Resistance 6. Electrical valve for automatic burner cleaning 7. Others: Second and third auger for multifeeding ✤ 2 secondary combustion fan ✤ Air inlet Control Flap-Valve Gas Boiler consent Solar Pump for integrated systems Automatic external Pellet loading system

2 Modules 0 ÷ 10 Vac to INVERTER control or other devices
On Line diagnostic module
Communication ports:
Serail port RS232 on Board for PC communication
On Line diagnostic module
Default components:
Bipolar general switch
4 buttons control board
4 digit Displays
Up to 14 signalling leds
Manually rearmed Thermostat
Default features:
Communication with PC on serial port with software System Evolution
Discrementation system KEV System with a key (non memory) to unload and download firm
ware(functioning)
Mechanical dimensions:
Board: 160 x 95 mm
Standard Panel: 274 x 108 mm
B. Temperature Probes
Smoke/Combustion
Teflon cable $0 - 260 $ °C
Thermocouple K $0 - 550$ °C
Extended Thermocouple $0 - 1200 \text{C}$
Exchanger Probe
Silicon cable $0 - 110 $ °C
Silicon cable $0 - 200 ^{\circ}$
Teflon cable $0 - 280 $ °C
Ambient probe
PVC cable $0 - 50 $ °C
C. Other probes to be defined
Photo probe
Flow Sensor
Water Pressure sensor
Pellet Level sensor
Others
2) SOFTWARE
SYSTEM Evolution
Software for database management of functioning programs
Real time <i>Programmation</i> of 'functioning recipes'
Real time Monitoring of functioning states
Firmware upload\download management through USB_Programmaer
. LOGGER:
Monitoring Software of variables, states and timings
Possibility of database creation for temporal analysis and functioning statistics
3) FUNCTIONING FEATURES
vstem functioning features can be developed with the client in order to his requirements and according to
ontrol board characteristics.