

Data Sheet

Burner Control Box CBR

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CBR V2.1







Designation	CBR	Control Box REKUMAT® / REGEMAT®
Description	The CBR burner control box incorporates key functional components into one compact device. Including a microprocessor controlled flame relay, safety relevant temperature acquisition, flame supervision, air valve control, manual/automatic operation, display of operating/fault status and a user interface.	
Installation	The compact metal housing (IP54) can be mounted in close vicinity to the associated burner (-20°C...+60°C). The cable/connector flange plate is configurable and quick connect wiring terminals within the device provide customer specific connection options.	
Communication	Signal exchange with process control either via hardwired input and output terminals or via Profibus DP interface (optional).	
System Solution	Flexible cabling with labeled and uniquely keyed connectors are easily attached to electrical burner components. Each customized control box undergoes electrical and functional testing, includes an electrical wiring diagram and is suitable for immediate integration into the combustion system on site (plug and play).	
Burner	WS gas burner	In supervised flame mode
	REKUMAT® FLOX®/Flame	With integrated (NiCr-Ni dual thermocouple) or with external FLOX®/Flame switching
	REKUMAT®	With integrated (NiCr-Ni dual thermocouple) or with external FLOX®/Flame switching with flame mode release via hardware or Profibus
	REGEMAT® 250	With integrated (NiCr-Ni dual thermocouple) or with external FLOX®/Flame switching with flame mode release via hardwired input or Profibus
	REGEMAT® 350 / 450	With integrated (NiCr-Ni dual thermocouple) or with external FLOX®/Flame switching with "Boost" release via hardwired input or Profibus

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 Combustion Type	Flame
	FLOX® / Flame
	Start / Flame / FLOX®
	Unique feature: Regenerative cycling of air/exhaust signal evaluation of NiCr-Ni thermocouples
 Burner Control	Automatic On/off pulse firing
	Manual
	WS Firing Rate Control Program
	A basic two point controller is integrated
 Flame Supervision	Flame rod Combined flame rod and ignition electrode or individual rods for supervision and ignition.
	UV- Detection (Option) Via UV sensor
 Special Features	Acquisition of safety relevant temperatures from a NiCr-Ni dual thermocouple for activation and supervision of combustion modes (Start / Flame / FLOX®) or safety relevant inputs for FLOX® / Flame switching (XOR logic)
	High frequency output terminals (min. 10 million cycles – safety relevant outputs are supervised)
	Differential pressure supervision (air) with idle state confirmation, configurable for selected operating modes, purge air supervision
	Configurable inputs and outputs (e.g. gas pressure, POC, max. air pressure)
	Configurable control features (e.g. min. On time, min. Off time, pre- and post- air purge, options for cooling air)
	Optional: A host of features for diagnostics, configuration and statistical data analysis accessible through the VisionBox PC-software
VisionBox can be utilized as a data logger	
» Customized Solutions available on Request «	