

1 Specifications FMS

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Offer no.:

Technical Consultant:

Phone.:

Plant:

Type no.:

Offer no.:

Configure like serial no.¹⁾:

Configure like LAMTEC order no.¹⁾:

Channel	Function	Output	Feedback	Correction 1	Correction 2
Channel 1	<input type="checkbox"/> OFF	<input type="checkbox"/> TPS ²⁾	<input type="checkbox"/> potentiometer ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 0 ... 20mA
	<input type="checkbox"/> recirculation	<input type="checkbox"/> 0 ... 20mA ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 4 ... 20mA	<input type="checkbox"/> 4 ... 20mA
	<input type="checkbox"/> fuel_____	<input type="checkbox"/> 4 ... 20mA ⁷⁾	<input type="checkbox"/> 4 ... 20mA		
	<input type="checkbox"/> air:_____		<input type="checkbox"/> 0 ... 20mA 24V supply from FMS (option at extra cost)	<input type="checkbox"/> internal O ₂ controller (option at extra cost, if no LAMTEC measuring system is in use)	
	<input type="checkbox"/> fan:_____		<input type="checkbox"/> 4...20mA 24V supply from FMS (option at extra cost)		
	<input type="checkbox"/> flue gas ⁵⁾		<input type="checkbox"/> r.p.m. sensor <input type="checkbox"/> 2-wire (Namur) <input type="checkbox"/> 3-wire	<input type="checkbox"/> internal CO controller (option at extra cost)	
	<input type="checkbox"/> mechanical compound		r.p.m. survey range :		
<input type="checkbox"/> steam ⁶⁾		<input type="checkbox"/> 300 - 3600 pulse/Min ³⁾ <input type="checkbox"/> 600 - 7200 pulse/Min ⁴⁾ <input type="checkbox"/> 30 - 300 pulse/Min <input type="checkbox"/> 60 - 600 pulse/Min <input type="checkbox"/> 175 - 4200 pulse/Min <input type="checkbox"/> 355 - 8430 pulse/Min <input type="checkbox"/> 15 - 440 pulse/Min <input type="checkbox"/> 45 - 1320 pulse/Min			

¹⁾ with this information you must not complete the form. The required information will be found in the above mentioned serial number or LAMTEC order number.

²⁾ only potentiometer feedback available with output TPS

³⁾ recommended for 1 pulse/revs

⁴⁾ recommended for 2 pulses/revs

⁵⁾ channel opens completely with start of the burner and remains at this position while ignition is completed

⁶⁾ functioning same as fuel channel; but remains closed during pre-ventilation

⁷⁾ At actuators with electronic controlling 4...20 mA the integrated signal 4...20 mA for the position feedback, in conjunction with ETAMATIC/FMS/VMS, cannot be used as an independent and fail-safe position feedback in according to EN12067-2. In conjunction with ETAMATIC/FMS/VMS these actuators will be only delivered with additional position feedback „POTENTIOMETER 5 kOhm (CONDUCTIVE PLASTIC), TÜV approved“. During system planning the following points must be considered:

In conjunction with FMS/VMS the position feedback for the corresponding control output must be configured to "POTENTIOMETER".

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Channel	Function	Output	Feedback	Correction 1	Correction 2
Channel 2	<input type="checkbox"/> OFF	<input type="checkbox"/> TPS ²⁾	<input type="checkbox"/> potentiometer ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 0 ... 20mA
	<input type="checkbox"/> recirculation	<input type="checkbox"/> 0 ... 20mA ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 4 ... 20mA	<input type="checkbox"/> 4 ... 20mA
	<input type="checkbox"/> fuel_____	<input type="checkbox"/> 4 ... 20mA ⁷⁾	<input type="checkbox"/> 4 ... 20mA		
	<input type="checkbox"/> air:_____		<input type="checkbox"/> 0... 20mA 24V supply from FMS (option at extra cost)	<input type="checkbox"/> internal O ₂ controller (option at extra cost, if no LAMTEC measuring system is in use)	
	<input type="checkbox"/> fan:_____				
	<input type="checkbox"/> flue gas ⁵⁾		<input type="checkbox"/> 4 ... 20mA 24V supply from FMS (option at extra cost)		
	<input type="checkbox"/> mechanical compound				
<input type="checkbox"/> steam ⁶⁾			<input type="checkbox"/> r.p.m. sensor <input type="checkbox"/> 2-wire (Namur) <input type="checkbox"/> 3-wire r.p.m. survey range : <input type="checkbox"/> 300 - 3600 pulse/Min ³⁾ <input type="checkbox"/> 600 - 7200 pulse/Min ⁴⁾ <input type="checkbox"/> 30 - 300 pulse/Min <input type="checkbox"/> 60 - 600 pulse/Min <input type="checkbox"/> 175 - 4200 pulse/Min <input type="checkbox"/> 355 - 8430 pulse/Min <input type="checkbox"/> 15 - 440 pulse/Min <input type="checkbox"/> 45 - 1320 pulse/Min	<input type="checkbox"/> internal CO controller (option at extra cost)	

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Channel	Function	Output	Feedback	Correction 1	Correction 2
Channel 3	<input type="checkbox"/> OFF	<input type="checkbox"/> TPS ²⁾	<input type="checkbox"/> potentiometer ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 0 ... 20mA
	<input type="checkbox"/> recirculation	<input type="checkbox"/> 0 ... 20mA ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 4 ... 20mA	<input type="checkbox"/> 4 ... 20mA
	<input type="checkbox"/> fuel_____	<input type="checkbox"/> 4 ... 20mA ⁷⁾	<input type="checkbox"/> 4 ... 20mA		
	<input type="checkbox"/> air:_____		<input type="checkbox"/> 0 ... 20mA 24V supply from FMS (option at extra cost)	<input type="checkbox"/> internal O ₂ controller (option at extra cost, if no LAMTEC measuring system is in use)	
	<input type="checkbox"/> fan:_____				
	<input type="checkbox"/> flue gas ⁵⁾		<input type="checkbox"/> 4 ... 20mA 24V supply from FMS (option at extra cost)		
	<input type="checkbox"/> mechanical compound				
<input type="checkbox"/> steam ⁶⁾			<input type="checkbox"/> r.p.m. sensor <input type="checkbox"/> 2-wire (Namur) <input type="checkbox"/> 3-wire r.p.m. survey range : <input type="checkbox"/> 300 - 3600 pulse/Min ³⁾ <input type="checkbox"/> 600 - 7200 pulse/Min ⁴⁾ <input type="checkbox"/> 30 - 300 pulse/Min <input type="checkbox"/> 60 - 600 pulse/Min <input type="checkbox"/> 175 - 4200 pulse/Min <input type="checkbox"/> 355 - 8430 pulse/Min <input type="checkbox"/> 15 - 440 pulse/Min <input type="checkbox"/> 45 - 1320 pulse/Min	<input type="checkbox"/> internal CO controller (option at extra cost)	

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Channel	Function	Output	Feedback	Correction 1	Correction 2
Channel 4	<input type="checkbox"/> OFF	<input type="checkbox"/> TPS ²⁾	<input type="checkbox"/> potentiometer ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 0 ... 20mA
	<input type="checkbox"/> recirculation	<input type="checkbox"/> 0 ... 20mA ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 4 ... 20mA	<input type="checkbox"/> 4 ... 20mA
	<input type="checkbox"/> fuel_____	<input type="checkbox"/> 4 ... 20mA ⁷⁾	<input type="checkbox"/> 4 ... 20mA		
	<input type="checkbox"/> air:_____		<input type="checkbox"/> 0 ... 20mA 24V supply from FMS (option at extra cost)	<input type="checkbox"/> internal O ₂ controller (option at extra cost, if no LAMTEC measuring system is in use)	
	<input type="checkbox"/> fan:_____				
	<input type="checkbox"/> flue gas ⁵⁾		<input type="checkbox"/> 4 ... 20mA 24V supply from FMS (option at extra cost)		
	<input type="checkbox"/> mechanical compound				
<input type="checkbox"/> steam ⁶⁾			<input type="checkbox"/> r.p.m. sensor <input type="checkbox"/> 2-wire (Namur) <input type="checkbox"/> 3-wire r.p.m. survey range : <input type="checkbox"/> 300 - 3600 pulse/Min ³⁾ <input type="checkbox"/> 600 - 7200 pulse/Min ⁴⁾ <input type="checkbox"/> 30 - 300 pulse/Min <input type="checkbox"/> 60 - 600 pulse/Min <input type="checkbox"/> 175 - 4200 pulse/Min <input type="checkbox"/> 355 - 8430 pulse/Min <input type="checkbox"/> 15 - 440 pulse/Min <input type="checkbox"/> 45 - 1320 pulse/Min	<input type="checkbox"/> internal CO controller (option at extra cost)	

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Channel	Function	Output	Feedback	Correction 1	Correction 2
Channel 5	<input type="checkbox"/> OFF	<input type="checkbox"/> 0 ... 20mA ⁷⁾	<input type="checkbox"/> potentiometer ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 0 ... 20mA
	<input type="checkbox"/> recirculation	<input type="checkbox"/> 4 ... 20mA ⁷⁾	<input type="checkbox"/> 0 ... 20mA	<input type="checkbox"/> 4 ... 20mA	<input type="checkbox"/> 4 ... 20mA
	<input type="checkbox"/> fuel_____		<input type="checkbox"/> 4 ... 20mA		
	<input type="checkbox"/> air:_____		<input type="checkbox"/> 0 ... 20mA 24V supply from FMS (option at extra cost)	<input type="checkbox"/> internal O ₂ controller (option at extra cost, if no LAMTEC measuring system is in use)	
	<input type="checkbox"/> fan:_____				
	<input type="checkbox"/> flue gas ⁵⁾		<input type="checkbox"/> 4 ... 20mA 24V supply from FMS (option at extra cost)		
	<input type="checkbox"/> mechanical compound				
	<input type="checkbox"/> steam ⁶⁾		<input type="checkbox"/> r.p.m. sensor <input type="checkbox"/> 2-wire (Namur) <input type="checkbox"/> 3-wire r.p.m. survey range : <input type="checkbox"/> 300 - 3600 pulse/Min ³⁾ <input type="checkbox"/> 600 - 7200 pulse/Min ⁴⁾ <input type="checkbox"/> 30 - 300 pulse/Min <input type="checkbox"/> 60 - 600 pulse/Min <input type="checkbox"/> 175 - 4200 pulse/Min <input type="checkbox"/> 355 - 8430 pulse/Min <input type="checkbox"/> 15 - 440 pulse/Min <input type="checkbox"/> 45 - 1320 pulse/Min	<input type="checkbox"/> internal CO controller (option at extra cost)	

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- Standby operation: activation via internal firing-rate controller
(option at extra cost) activation via LSB-module
(communication processor required)
 activation via fieldbus

(This option activates the pilot burner and switches off the main burner. When you switch from standby to normal operation, the main burner will start without pre-ventilation.)

- purge oil gun
(option at extra cost) _____ s extension of the 2nd safety time oil (default: 10s)
(communication processor required)

- field bus connection: PROFIBUS Modbus Ethernet Interbus CANopen (option at extra cost)

- language: _____ German (standard), English, French, Italian, Swedish, Spanish, Dutch, Slovak, Danish, Portuguese, Polish, Turkish, Croatian, Slovenian, Czech

Other:

- _____
- _____
- _____
- _____

Person responsible for documentation:

S. Vischer

Document number:

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