

Comparison sheet

BurnerTronic BT3xx / ETAMATIC OEM

LAMTEC

Sensors and systems for combustion engineering

www.lamtec.de

Comparison sheet BMS Systems.

	Controller type	BurnerTronic 320
	Manufacturer	LAMTEC
Features		
		FM for gas or oil operation 2 actuators max. special actuators with optical feedback gas: modulating (electronic or pneumatic) oil: modulating or up to 3 stages integrated flame scanner for ionisation and optic flame sensors firing rate controller, O_2, CO and fan speed control available optionally
Application/Function		
Continuous operation available acc. EN298 (former TRD)		Optical only with external flame scanner
SIL Approval		-
Fuels	Gas only	✓
	Oil only	✓
	Dual fuel	-
	Number of possible curves per channel	1
Burner sequences	Gas with pilot burner, pilot gas upstream main	since R3.2
	Gas with pilot burner, pilot gas in gas train	✓
	Gas with pilot burner, pilot gas upstream main, sep. flame scanner	since R3.2
	Gas with pilot burner, pilot gas in gastrain, sep. flame scanner	✓
	Gas with pilot burner, pilot gas in gastrain, sep. flame scanner	✓
	Gas without pilot burner	✓
	Oil without pilot gas burner	✓
	Oil with pilot gas burner	✓
	Oil with pilot gas burner, sep. flame scanner	✓
Number of active channels	Actuators	2
	Actuators + frequecy control	3

BurnerTronic 330	BurnerTronic 331	BurnerTronic BT335	BurnerTronic 340	BurnerTronic 341	ETAMATIC OEM
LAMTEC	LAMTEC	LAMTEC	LAMTEC	LAMTEC	LAMTEC
FM for gas or oil operation 3 actuators max. special actuators with optical feedback gas: modulating (electronic or pneumatic) oil: modulating or up to 3 stages continuous operation integrated flame scanner for ionisation and optic flame sensors firing rate controller, O_2, CO and fan speed control available optionally	FM for gas or oil operation 3 actuators max. special actuators with optical feedback gas: modulating (electronic or pneumatic) oil: modulating or up to 3 stages continuous operation SIL3 integrated flame scanner for ionisation and optic flame sensors firing rate controller, O_2, CO and fan speed control available optionally	FM for gas, oil or dual fuel operation oil/gas 3 actuators max special actuators with optical feedback gas: modulating (electronic or pneumatic) oil: modulating or up to 3 stages continuous operation integrated flame scanner for ionisation and optic flame sensors firing rate controller, O_2, CO and fan speed control available optionally	FM for gas, oil or dual fuel operation gas/gas or oil/gas 3 actuators max special actuators with optical feedback gas: modulating (electronic or pneumatic) oil: modulating or up to 3 stages continuous operation integrated flame scanner for ionisation and optic flame sensors firing rate controller, O_2, CO and fan speed control available optionally	FM for gas, oil or dual fuel operation 3 actuators max. special actuators with optical feedback gas: modulating (electronic or pneumatic) oil: modulating or up to 3 stages continuous operation SIL3 integrated flame scanner for ionisation and optic flame sensors firing rate controller, O_2, CO and fan speed control available optionally	FM for gas, oil or dual fuel operation 4 actuators max. 230 VAC actuators with potentiometer feedback gas: modulating (electronic or pneumatic) oil: modulating continuous operation SIL3 integrated flame scanner for optic flame sensors available optionally firing rate controller integrated, O_2, CO and fan speed control available optionally
Optical only with external flame scanner	Optical only with external flame scanner	Optical only with external flame scanner	Optical only with external flame scanner	Optical only with external flame scanner	✓
-	SIL 3	-	-	SIL 3	SIL 3
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
-	-	✓ (only oil/gas)	With LCM / LEM and DFM	With LCM / LEM and DFM	✓
1	1	2	2	2	2
since R3.2	since R3.2	since R3.2	since R3.2	since R3.2	✓
✓	✓	✓	✓	✓	✓
since R3.2	since R3.2	since R3.2	since R3.2	since R3.2	✓ (ext. floating contact)
✓	✓	✓	✓	✓	✓ (ext. floating contact)
✓	✓	✓	✓	✓	✓ (ext. floating contact)
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓ (ext. floating contact)
3	3	3	3	3	4
4	4	4	4	4	4

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	Manufacturer	LAMTEC
Application/Function		
Operation mode	2 Stages gas	-
	3 Stages gas	-
	2 Stages oil	✓
	3 Stages oil	✓ (no pilot burner)
	Modulating gas, pneumatic	✓
	Modulating gas, electronic	✓
	Modulating oil, electronic	✓
	Modulating electronic (comb.1); 2/3 stage (comb.2)	-
	Modulating pneumatic (comb.1); 2/3 stage (comb.2)	-
	Modulating electronic oil or gas (dual fuel)	-
Valve leakage test	Adjustable (on/off; pre and post operation)	✓
	Integrated by gas > min pressure guard	✓
	Seperate gas pressure min. and LT pressure switch	-
Flame monitoring		
Ionisation flame monitoring possible		Continous operation (from version 3.9.0.0)
Available optical flame sensors for intermittend operation only	Type UV	QRA2 / KLC1000
	Type IR	KLC2002
	Type visible light	QRB
	External flame scanner with floating contact	✓
Available optical flame sensors for continuous operation	Type UV	-
	Type IR	-
	External flame scanner with floating contact	✓
Firing rate system		
Firing rate controller input	230 VAC, 24 VDC (floating contact)	-
	0-10 V	with LCM100
	4-20 mA	with LCM100
	230 V 3 steps	✓
	Floating contact 3 steps	with LCM100
	Potentiometer	with LCM100
	System integrated PID firing rate controller	with LCM100
Environmental conditions		
Ambient temperature max.	During operation	60 °C
	During storage	70 °C
Power consumption	Represented power consumption max. or measured values	30 VA
Power supply	230 V/50 Hz	✓
	230 V/60 Hz	✓
	115 V/50 Hz	Variante
	115 V/60 Hz	Variante

BurnerTronic 330	BurnerTronic 331	BurnerTronic 335	BurnerTronic 340	BurnerTronic 341	ETAMATIC OEM
LAMTEC	LAMTEC	LAMTEC	LAMTEC	LAMTEC	LAMTEC
-	-	-	-	-	✓
-	-	-	-	-	✓
✓	✓	✓	✓	✓	✓
✓ (no pilot burner)	✓ (no pilot burner)	✓ (no pilot burner)	x (no pilot burner)	✓ (no pilot burner)	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
-	-	-	✓ (3 stage no pilot burner)	✓ (3 stage no pilot burner)	✓
-	-	-	✓ (3 stage no pilot burner)	✓ (3 stage no pilot burner)	✓
-	-	only gas/oil	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
-	-	-	-	-	-
Continous operation	Continous operation	Continous operation	Continous operation	continous operation	(ext. floating contact)
QRA2 / KLC1000	QRA2 / KLC1000	QRA2 / KLC1000	QRA2 / KLC1000	QRA2 / KLC1000	-
KLC2002	KLC2002	KLC2002	KLC2002	KLC2002	-
QRB	QRB	QRB	QRB	QRB	-
✓	✓	✓	✓	✓	✓
-	-	-	-	-	FFS07/08 UV
-	-	-	-	-	FFS07/08 IR
✓	✓	✓	✓	✓	✓
-	-	-	-	-	-
with LCM100	with LCM100	with LCM100	with LCM100	with LCM100	✓
with LCM100	with LCM100	with LCM100	with LCM100	with LCM100	✓
✓	✓	✓	✓	✓	-
with LCM100	with LCM100	with LCM100	with LCM100	with LCM100	✓
with LCM100	with LCM100	with LCM100	with LCM100	with LCM100	✓
with LCM100	with LCM100	with LCM100	with LCM100	with LCM100	✓
60 °C	60 °C	60 °C	60 °C	60 °C	60 °C
70 °C	70 °C	70 °C	70 °C	70 °C	70 °C
30 VA	30 VA	30 VA	30 VA	30 VA	50 VA
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
Variante	Variante	Variante	Variante	Variante	✓
Variante	Variante	Variante	Variante	Variante	✓

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	Controller type	BurnerTronic 320
	Manufacturer	**LAMTEC**
Actuators		
Types of actuators		Stepper
Torque of actuators Nm		0,8/1,2/3,0/9,0
Supply of actuators		24 VDC
Control of actuators		electronic
Feedback of actuator pos.		optical/dig.
Actuator operation		left or right
Electrical Data		
Plug system for wiring	Boiler side 230 VAC	RAST5
	Boiler side 24 VDC	Screw Terminals (LCM)
	Burner side 230 VAC	RAST5
	Burner side 24 VDC	-
Cross section of wires to be wired		2,5 mm^2 (RAST5 screw) 1,5 mm^2 (RAST5 IDT)
Type of input signals	Input for the signal of external devices	230 VAC
Type of output signals	230 VAC, 24 VDC, floating (24 VDC)	230 VAC
24 VDC supply of sensor transmitter integrated	Standard PID	with LCM100
HMI		
	One device	✓
	Adjustments with icons	✓
	Languages available	language neutral
	Faults coded	✓
	Faults clear text	-
Additonal Values		
Available additional features	HMI necessary for operation	-
	VFD control	optional
	O_2 control	optional
	CO control	optional
	Fuel counter	optional
	ModBus TCP	optional
	PROFIBUS	optional
	PROFINET	optional
	Ethernet	optional
	eBus	-
Function testing	by HMI	-
	by PC access	✓
Commissioning	Pre commissioning possible	✓
	by PC access + HMI	✓
	by HMI access only	✓

BurnerTronic 330	BurnerTronic 331	BurnerTronic 335	BurnerTronic 340	BurnerTronic 341	ETAMATIC OEM
LAMTEC	LAMTEC	LAMTEC	LAMTEC	LAMTEC	LAMTEC
Stepper	Stepper	Stepper	Stepper	Stepper	Synchron 2 limit switches
0,8/1,2/3,0/9,0	0,8/1,2/3,0/9,0	0,8/1,2/3,0/9,0	0,8/1,2/3,0/9,0	0,8/1,2/3,0/9,0	180 Nm
24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	230 VAC
electronic	electronic	electronic	electronic	electronic	3 point step 230 VAC
optical/dig.	optical/dig.	optical/dig.	optical/dig.	optical/dig.	potentiometer
left or right	left or right	left or right	left or right	left or right	on order left or right
RAST5	RAST5	RAST5	RAST5	RAST5	COMBICON 7,62
Screw Terminals (LCM)	Screw Terminals (LCM)	Screw Terminals (LCM)	Screw Terminals (LCM)	Screw Terminals (LCM)	COMBICON 3,81
RAST5	RAST5	RAST5	RAST5	RAST5	COMBICON 7,62
-	-	-	-	-	COMBICON 3,81
2,5 mm^{22}(RAST5 screw) 1,5 mm^{22}(RAST5 IDT)	2,5 mm^{22}(RAST5 screw) 1,5 mm^{22}(RAST5 IDT)	2,5 mm^{22}(RAST5 screw) 1,5mm^{22}(RAST5 IDT)	2,5 mm^{22}(RAST5 screw) 1,5mm^{22}(RAST5 IDT)	2,5 mm^2 (RAST5 screw) 1,5 mm^2 (RAST5 IDT)"	2,50 mm^2 1,50 mm^2
230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	floating 24 VDC
230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC
with LCM100	with LCM100	with LCM100	with LCM100	with LCM100	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
language neutral	language neutral	language neutral	language neutral	language neutral	DE, F,R EN, ES, IT, NL, TR, RU, ZH,
✓	✓	✓	✓	✓	✓
-	-	-	-	-	✓
-	-	-	-	-	✓
optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional
-	-	-	-	-	-
-	-	-	-	-	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓

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Publication no. DLT1210-26-EN-003
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