

PMA controllers at a glance

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WEST
Temperature Control Solutions



Type	Dig 280-1	KS 40-1 KS 41-1 KS 42-1	KS 40-1 burner	KS 50-1 KS 50-1 TCont	TB 40-1	KS 45	TB 45	KS 90-1 KS 90-1 prog.	KS 92-1 KS 92-1 prog.	KS 94	KS 98-1	KS 800	KS 816	KS vario modular controller system
Description	Digital indicator	Industrial controller	Burner controller	Industrial controller / Temperature controller for tempering units and hot runners	Temperature limiter & monitor	Industrial controller	Temperature limiter & monitor	Industrial & process controller / Programm controller	Industrial & process controller / Programm controller	Industrial & process controller	Multi-function unit	Multiple temperature controller	Multi-transmitter Multi-loop temperature controller	Modular controller system
Overall dimensions (mm) (W x H x D)	96x48x118	48x96x118 96x48x118 96x96x118	48x96x118	48x96x118	48x96x118	22,5x99x118	22,5x99x118	48x96x118	96x96x118	96x96x160	96x96x160	1024x170x85	1024x170x85	139x120x71 Controller & bus coupler
Connections	Screws	Flat-pin or screws	Flat-pin or screws	Flat-pin or screws	Flat-pin or screws	Screws or spring-clamp	Screws or spring-clamp	Flat-pin or screws	Flat-pin or screws	Flat-pin or screws	screws	Plug-in terminal blocks	Plug-in terminal blocks	Plug-in spring-clamp terminals
No. of control loops / process signal inputs	1/1	1/2	1/2	1/3	-/1	1/2	-/2	1/3	1/3	1/3...5	3...26/3...85	8/9	16	4...30/4...34
Scanning time of universal input	100 ms	100 ms	100 ms	100 ms	100 ms	100 ms	100 ms	100 ms	100 ms	200 ms	200 ms	625 ms	1 sec	≥ 100 ms
Customer-specific linearization	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	Engineering Tool	Engineering Tool BlueControl®	-	-	-
Two-wire supply	●	●	●	●	-	●	●	●	●	●	●	-	-	-
Additional input for heating current monitor	-	● or ●	-	● or ●	-	● or ●, 2. universal-input	-	-	-	-	-	●	-	up to 4 aggr. current inputs
Additional input for external setpoint	-	-	●, also Pt 100 / pot	-	-	-	-	●	●	●	●	-	-	-
Ratio input / three-element input	-/-	-/-	-/-	-/-	-/-	-/-	-/-	●/-	●/-	●/●	●/● computing function	-	-	-
Potentiometer input position feedback	-	-	-	-	-	-	-	●	●	●	●	●	-	●
Measured value output	universal output	universal output	-	universal output	-	universal output	universal output	universal output	universal output	●	●	20 mA output	-	max. 60 universal outputs
Control outputs	relay, logic, contin	relay, logic, contin	relay	relay, logic, contin, optoc	-	relay, logic, contin, optoc	2	relay, logic, contin, optoc	relay, logic, contin, optoc	relay, logic, contin	relay, logic, contin	logic, contin	-	max. 60 relay, logic, contin
3-point stepping controller	-	●	●	●	-	●	-	●	●	●	●	●	●	●
Auto/manual key/Function key	-/-	●/-	●/●	●/●	alarm / reset	function / function	alarm / reset	●/●	●/●	●/-	●/-	via digital inputs	-	via digital inputs
Alarm outputs /Alarm functions	max. 3 Memory	max. 3 Memory	max. 3 Memory	max. 3 Memory	temperatur limiter	max. 3 Memory	temperature limiter, pre-alarm	max. 4	max. 4	max. 4	2...362/ configurable	3	-	max. 60, Memory
No. of segments for programmer	-	4	4	10	-	4	-	ramp 16x16	ramp 16x16	3x16	> 1000	2 per zone	2 per zone	2 per zone
No. of control inputs	max. 3	max. 3	2	max. 3	1	1	1	max. 3	max. 3	max. 12	2...362	max. 4	-	max. 320 dig. inputs
Front interface/Engineering Tool	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	BlueControl®	ET 94	ET 98plus	BlueControl®	BlueControl®	RS 232 port for BlueControl®
Process interface	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU, Arburg Protocol	-	Ethernet, Profibus DP, Modbus RTU System	Ethernet, Profibus DP, Modbus RTU System	Modbus RTU Profibus DP	Modbus RTU Profibus DP	ISO 1745 Profibus DP, Interbus	ISO 1745, Profibus DP, CANopen	Profibus DP, CANopen, DeviceNet, ISO1745	Profibus DP, CANopen, DeviceNet, ISO1745	Ethernet, Profibus DP, CANopen, DeviceNet, Modbus RTU
Supply voltage	90-250 VAC 24 VUC	90-250 VAC 24 VUC	90-250 VAC 24 VUC	90-250 VAC 24 VUC	90-250 VAC 24 VUC	90-260 VAC 24 VUC	90-260 VAC 24 VUC	90-250 VAC 24 VUC	90-250 VAC 24 VUC	90-250 VAC 24 VUC	90-250 VAC 24 VUC	24 VDC	24 VDC	24 VDC
Special test certificates	UL/cUL	DIN 3440 UL/cUL, GL	DIN 3440 UL/cUL, GL	DIN 3440 UL/cUL	DIN 3440 UL/cUL	DIN 3440 UL/cUL	DIN 3440 UL/cUL	DIN 3440 UL/cUL	DIN 3440 UL/cUL	DIN 3440	DIN 3440 UL/cUL	UL/cUL	UL/cUL	UL/cUL