

	Loop Control Inputs									Control Outputs							Comms		Security			Misc									
	Base L1 price	Power In: 1-250VAC or 1-26VAC/DC	Display: D=Dual, S=Single	Universal Input: 1-10V, RTD, MM, NDC	Universal Input: 1-10V, RTD, MM, NDC	Universal Input: 1-10V, RTD, MM, NDC	2nd analog input: remote SP, 2nd PV or CT	1st analog input: 1-10V, RTD, MM, NDC	200 mA input sensor	Remote to Segment	Event Input	Total number of control outputs	PID Auto Tune	Fuzzy Assist	Output #1: on/off or PID	Output #2: PID cool, Alarm or Trx PS	Output #3: PID cool, Alarm or Trx PS	Output #4: Alarm	Output #5: Alarm	Timer (latch on all)	Alarm Logic: Dev, Der Band, Process, Latching	Retransmission	Analog (1-4-bit)	Serial Modbus RS232 or 485 RTU	Operator Security DIP Switch	Operator Security Software	Operator Security: Password	Operator Security: Password	3-Year Warranty	PC Configuration	Optional
<b>300 Series</b>																															
2500 1/32 DIN	\$206	✓	S	✓	✓	✓	✓	✓	✓	(1)✓	3	(3)✓	✓	✓	✓	✓	✓	✓	(6)	✓	(8)✓(9)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	S
9300 1/16 DIN	\$221	✓	D	✓	✓	✓	✓	✓	✓	(1)✓	3	(3)✓	✓	✓	✓	✓	✓	✓	(6)	✓	(8)✓(9)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	S
8300 1/8 DIN	\$275	✓	D	✓	✓	✓	✓	✓	✓	(1)✓	4	(3)✓	✓	✓	✓	✓	✓	✓	(6)	✓	(8)✓(9)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	O
4300 1/4 DIN	\$325	✓	D	✓	✓	✓	✓	✓	✓	(1)✓	4	(3)✓	✓	✓	✓	✓	✓	✓	(6)	✓	(8)✓(9)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	O
<b>100 Series</b>																															
9100 1/16 DIN	\$159	✓	D	✓	✓	✓	✓	✓	✓		3	✓	✓	✓	✓	✓	✓	✓	✓	✓	(8)✓(10)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	O
8100 1/8 DIN	\$199	✓	D	✓	✓	✓	✓	✓	✓		3	✓	✓	✓	✓	✓	✓	✓	✓	✓	(8)✓(10)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	O
4100 1/4 DIN	\$199	✓	D	✓	✓	✓	✓	✓	✓		3	✓	✓	✓	✓	✓	✓	✓	✓	✓	(8)✓(10)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	O
B Series Board Level	\$149	✓	D	✓	✓	✓	✓	✓	✓		3	✓	✓	✓	✓	✓	✓	✓	✓	✓	(8)✓(10)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	O
<b>C Series</b>																															
C21 1/32 DIN	\$139	✓	S	✓	✓	✓	✓	✓	✓		2	✓	✓	✓	✓	✓	✓	✓	✓	✓	(8)✓(10)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	S
C91 1/16 DIN	\$139	✓	S	✓	✓	✓	✓	✓	✓		2	✓	✓	✓	✓	✓	✓	✓	✓	✓	(8)✓(10)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	O
<b>P Series (Profile 13)</b>																															
P91 1/16 DIN	\$221	✓	D	✓	✓	✓	✓	✓	✓	(1)✓	3	(3)✓	✓	(3)✓	(3)✓	(7)✓	✓	✓	✓	✓	(8)✓(10)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	O
P41 1/4 DIN	\$325	✓	D	✓	✓	✓	✓	✓	✓	(1)✓	4	(3)✓	✓	(3)✓	(3)✓	(7)✓	✓	✓	✓	✓	(8)✓(10)	(8)✓	✓	✓	✓	✓	✓	✓	✓	Y	O
<b>L Series (FM Limits)</b>																															
L91 1/16 DIN	\$180	✓	S	✓	✓	✓	✓	✓	✓	(13)✓(1)✓	2		(4)	(4)✓					(4)	✓	(8)✓(10)	(8)✓				(11)	✓	✓	Y	O	
L41 1/4 DIN	\$299	✓	D	✓	✓	✓	✓	✓	✓	(13)✓(1)✓	2		(4)	(4)✓					(4)	✓	(8)✓(10)	(8)✓				(11)	✓	✓	Y	O	
<b>90 Series (Legacy)</b>																															
9090 1/16 DIN	\$179	✓	D	✓	✓	✓	✓	✓	✓		2	✓	✓	(5)✓					✓	✓								✓	✓		

**(1) Event Input:**

- 300 Series configurable for 1 of 9 functions  
SP2, PID2, SP2/PID2, reset alarms, disable output 1, 2, or 1 & 2, switch remote to local SP, Lock all parameters
- P Series configurable for 1 of 8 functions:  
Profile - Start, Hold, Abort, Switch to Manual mode, failure transfer, all outputs off, segment advance, select 2nd PID parameters
- L Series Event Input is configurable as remote reset or remote Lock;  
Event input is standard L41; optional on L91 and consumes L91 output #2

- 2) 300 & P Series PID Sets:** Both models are capable of storing two PID sets
- P and 300 Series may switch between PID sets via event input
  - P Series may also have specific PID set configurable by segment within a profile.

**3) P Series Output 2, 3 & 4**

- Hardware may be specified as an Output or Trx Power Supply
- Outputs may be specified as an Alarm or an Event  
(events functional when running a profile, configurable by segment)  
(alarm configurable as standard alarms and as profile alarms: Hold, Run or End)
- Output #4 (P41 only) may also be specified for Retransmission of PV or SP

**4) L Series**

- L Series Output #1 is a latching output; No PID output  
Output #2 configurable as Process (latching or not) or alarm silence logic
- L 91 Single Display; when in Alarm show PV, when not in alarm configurable as follows:  
L 91 display configurable to show PV, SAFE or SP1 or 2.
- L41 display: upper display always shows PV  
L41 lower display: when in alarm shows SP, when not in alarm configurable to show SP or SAFE

**5) 9090 output #2**

Alarm only configurable as process, deviation, deviation band or timer

**6) 300 Series Alarm Logic**

- also includes Heater Break Alarm based upon PV#2 CT input, loop break alarm, process alarms on PV #1 and/or 2 and delta PV1 & PV2

**7) P Series Alarm functionality:**

- P Series does not offer latching output or Timer alarm outputs
- P Series also offers profile specific alarm logic: End of Profile, Hold mode and Static mode

**8) Communications: Analog Retransmission and Serial Modbus RS232/485**

- Analog Retransmission and Serial Modbus are mutually exclusive except for the model P41
- The 300 & 100 Series, C21 and L41 offer a specific Communications output option in matrix
- The C91 and L91 Series offers Communication options but are mutually exclusive with output #2
- Multiview PC based SCADA and Orion-M color touch screen systems communicate with 300 Series only

**(9) Analog Retransmission - 300 Series:** PV, SP or percent out for output #1 or #2

**(10) Analog Retransmission - 100, C, L and P Series:** PV or SP

**(11) Security L Series:** Setpoint & configuration Lock occurs after time-out period or digital input

**(12) Agency Approval - UL component recognition & UL Listed**

The L41 & P Series are UL Listed; all other controls are UL Recognized

**(13) P Series Profile Overview**

- up to 9 programs
- up to 2 PID outputs w/2 PID sets
- up to 64 segments/program
- up to 3 alarms or events