

Date: June 6, 2011

Product Description and Part Numbers:

SDXX-XXXX-XXXX

All PID and limit configurations of the following controllers:

- Series SD 1/32 DIN
- Series SD 1/16 DIN
- Series SD 1/8 DIN Horizontal and Vertical
- Series SD 1/4 DIN

All spare parts and accessories

- Z100-0723-0000 1/16 DIN mounting bracket with screws
- Z100-0809-0000 1/8 DIN mounting bracket with screws
- 0822-0549-0001 Retention collar
- 0822-0679-0000 Connector retainer clip
- 0822-0660-0000 1/4 DIN alternate bracket, V4 style
- 0819-0752-0000 Screws for above alternate bracket
- 0822-0600-P000 SD8X mounting collar
- 0822-0601-P000 SD9X mounting collar
- 0830-0603-0000 1/32 DIN case gasket
- 0830-0466-0000 1/16 DIN case gasket
- 0830-0539-0000 SD8X case gasket
- 0830-0641-0000 SD9X case gasket
- 0836-1222-0004 Four position wiring connector
- 0836-1222-0006 Six position wiring connector
- 0836-1224-0004 Four position sensor wiring connector
- 0836-1224-0007 Seven position sensor wiring connector
- 0836-1298-0005 Five position Devicenet™ mating connector
- 0600-0041-0000 English PID and ramping user manual, printed edition only
- 0600-0041-0001 French PID and ramping user manual, printed edition only
- 0600-0041-0002 German PID and ramping user manual, printed edition only
- 0600-0041-0003 Spanish PID and ramping user manual, printed edition only
- 0600-0041-0004 Italian PID and ramping user manual, printed edition only
- 0600-0041-0005 English limit user manual, printed edition only
- 0600-0041-0006 French limit user manual, printed edition only
- 0600-0041-0007 German limit user manual, printed edition only
- 0600-0041-0008 Spanish limit user manual, printed edition only
- 0600-0041-0009 Italian limit user manual, printed edition only
- 0600-0041-0010 English single display PID user manual, printed edition only
- 0600-0041-0011 French single display PID user manual, printed edition only
- 0600-0041-0012 German single display PID user manual, printed edition only
- 0600-0041-0013 Spanish single display PID user manual, printed edition only
- 0600-0041-0014 Italian single display PID user manual, printed edition only
- 0600-0041-0016 English Devicenet user manual, printed edition only
- 0238-1080-0003 SD3C PID overlay with Watlow name and logo
- 0238-1080-0006 SD3C PID overlay, SD logo only
- 0238-1080-0007 SD3R ramping overlay with Watlow name and logo
- 0238-1080-0008 SD3C ramping overlay, SD logo only
- 0238-1081-0000 SD6C IrDA/PID overlay with Watlow name and logo
- 0238-1081-0003 SD6C Non-IrDA/PID overlay with Watlow name and logo
- 0238-1081-0009 SD6C IrDA/PID overlay, SD logo only



0238-1081-0006 SD6C Non-IrDA/PID overlay, SD logo only
0238-1081-0002 SD6R IrDA/ramping overlay with Watlow name and logo
0238-1081-0005 SD6R Non-IrDA/ramping overlay with Watlow name and logo
0238-1081-0011 SD6R IrDA/ramping overlay, SD logo only
0238-1081-0008 SD6R Non-IrDA/ramping overlay, SD logo only
0238-1082-0000 SD8C IrDA/PID overlay with Watlow name and logo
0238-1082-0003 SD8C Non-IrDA/PID overlay with Watlow name and logo
0238-1082-0009 SD8C IrDA/PID overlay, SD logo only
0238-1082-0006 SD8C Non-IrDA/PID overlay, SD logo only
0238-1083-0000 SD9C IrDA/PID overlay with Watlow name and logo
0238-1083-0003 SD9C Non-IrDA/PID overlay with Watlow name and logo
0238-1083-0009 SD9C IrDA/PID overlay, SD logo only
0238-1083-0006 SD9C Non-IrDA/PID overlay, SD logo only
0238-1082-0002 SD8R IrDA/ramping overlay with Watlow name and logo
0238-1082-0005 SD8R Non-IrDA/ramping overlay with Watlow name and logo
0238-1082-0011 SD8R IrDA/ramping overlay, SD logo only
0238-1082-0008 SD8R Non-IrDA/ramping overlay, SD logo only
0238-1083-0002 SD9R IrDA/ramping overlay with Watlow name and logo
0238-1083-0005 SD9R Non-IrDA/ramping overlay with Watlow name and logo
0238-1083-0011 SD9R IrDA/ramping overlay, SD logo only
0238-1083-0008 SD9R Non-IrDA/ramping overlay, SD logo only
0238-1084-0000 SD4C IrDA/PID overlay with Watlow name and logo
0238-1084-0003 SD4C Non-IrDA/PID overlay with Watlow name and logo
0238-1084-0009 SD4C IrDA/PID overlay, SD logo only
0238-1084-0006 SD4C Non-IrDA/PID overlay, SD logo only
0238-1084-0002 SD4R IrDA/ramping overlay with Watlow name and logo
0238-1084-0005 SD4R Non-IrDA/ramping overlay with Watlow name and logo
0238-1084-0011 SD4R IrDA/ramping overlay, SD logo only
0238-1084-0008 SD4R Non-IrDA/ramping overlay, SD logo only
0238-1134-0003 SD31C PID overlay with Watlow name and logo
0238-1134-0006 SD31C PID overlay, SD logo only
0238-1081-0012 SD6C Devicenet PID overlay with Watlow name and logo
0238-1081-0013 SD6C Devicenet PID overlay, SD logo only
0238-1081-0014 SD6L Devicenet limit overlay with Watlow name and logo
0238-1081-0015 SD6L Devicenet limit overlay, SD logo only
0238-1081-0016 SD6R Devicenet ramping overlay with Watlow name and logo
0238-1081-0017 SD6R Devicenet ramping overlay, SD logo only
0238-1080-0004 SD3L limit overlay with Watlow name and logo
0238-1080-0005 SD3L limit overlay, SD logo only
0238-1081-0001 SD6L IrDA limit overlay with Watlow name and logo
0238-1081-0004 SD6L Non-IrDA limit overlay with Watlow name and logo
0238-1081-0010 SD6L IrDA limit overlay, SD logo only
0238-1081-0007 SD6L Non-IrDA limit overlay, SD logo only
0238-1082-0001 SD8L IrDA limit overlay with Watlow name and logo
0238-1082-0004 SD8L Non-IrDA limit overlay with Watlow name and logo
0238-1082-0010 SD8L IrDA limit overlay, SD logo only
0238-1082-0007 SD8L Non-IrDA limit overlay, SD logo only
0238-1083-0001 SD9L IrDA limit overlay with Watlow name and logo
0238-1083-0004 SD9L Non-IrDA limit overlay with Watlow name and logo
0238-1083-0010 SD9L IrDA limit overlay, SD logo only
0238-1083-0007 SD9L Non-IrDA limit overlay, SD logo only
0238-1084-0001 SD4L IrDA limit overlay with Watlow name and logo
0238-1084-0004 SD4L Non-IrDA limit overlay with Watlow name and logo
0238-1084-0010 SD4L IrDA limit overlay, SD logo only
0238-1084-0007 SD4L Non-IrDA limit overlay, SD logo only

Recommended Replacement:

EZ-ZONE[®] PM 3, 1/32 DIN Panel Mount or Limit Controller for SD 1/32 DIN
 EZ-ZONE[®] PM 6, 1/16 DIN Panel Mount or Limit Controller for SD 1/16 DIN
 EZ-ZONE[®] PM 8, 1/8 DIN Horizontal Panel Mount or Limit Controller for SD 1/8 DIN Horizontal
 EZ-ZONE[®] PM 9, 1/8 DIN Vertical Panel Mount or Limit Controller for SD 1/8 DIN Vertical
 EZ-ZONE[®] PM 4, 1/4 DIN Panel Mount or Limit Controller for SD 1/4 DIN

The EZ-ZONE PM controllers are close functional replacements for the Series SD controllers. Please see the Series SD to EZ-ZONE PM Comparison Guide on pages 5 – 8 of this notice.

EZ-ZONE PM Key Features

- Integrated PID and Limit Control
- One or two loops of control
- 15 Amp NO-ARC relay power control
- Advanced PID with TRU-TUNE+[®]
- Programmable menu
- Communication connectivity options
- FREE Standard Bus for PC Configuration with FREE EZ-ZONE Configuration Software
- Connectivity to SpecView from Watlow

Replacement Availability: EZ-ZONE PM available now

Last Day to Place Orders: Juny 30, 2011

Last Day for Shipments: December 28, 2011

Service Period: 3 years, ending December 28, 2014, subject to component availability.

Available resources to support product migration to the EZ-ZONE[®] PM products:

<u>Item</u>	<u>Contact</u>
Part number cross reference	Application Engineers
Specification differences	Application Engineers
Custom overlay development	Account Managers
Custom parameter setup	Account Managers
Custom firmware	Account Managers

Collateral:

- Specification Sheet for EZ-ZONE PM:
<http://www.watlow.com/downloads/en/specsheets/winezpm0311.pdf>
 - Specification Sheet for EZ-ZONE Configurator:
<http://www.watlow.com/downloads/en/specsheets/winezc1210.pdf>
 - Specification Sheet for SpecView:
<http://www.watlow.com/downloads/en/specsheets/winsv1009.pdf>
 - Series SD retrofit guide:
<http://www.watlow.com/downloads/en/retrofit/Series%20SD%20Retrofit%20Guide%20041111.pdf>
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Series SD 1/32 DIN to EZ-ZONE PM 1/32 DIN Comparison Guide:

Controller Attributes	EZ-ZONE PM 3	Series SD 3
Control Modes	Heat/cool, on/off, P, PI, PD, PID or alarm	Heat/cool, on/off, P, PI, PD, PID or alarm
Number of PID Loops	1	1
Number of Limit Loops	0	0
Enhanced Control Functions	No	No
Slidewire Feedback	No	No
Current Monitoring	No	No
Timer	No	Yes
Front Panel Removable	Yes	Yes
Sensor Input	Universal	Universal
Thermistor Input	Yes	No
Control Update Rate	10Hz	6.5Hz
Accuracy	+/- 0.1% of span	+/- 0.1% of span
Auto Tune	Yes	Yes
Adaptive Tune	TRU-TUNE®	TRU-TUNE®
Programmable Menu	Yes	Yes
Analog (Sensor) Input Capacity	1	1
Digital Input Capacity	0 or 2	0
Analog (Process) Output Capacity	0 or 1	0 or 1
Digital Output Capacity	0 to 2	0
Number of Outputs	1 to 4	1 to 2
Power output	5A mechanical relay	2A mechanical relay
Event Input	Yes	No
Profiling	Yes	Yes
Retransmit	Yes	Yes
Display	Dual 4-digit 7-segment red/green	Dual 4-digit 7-segment red/green Single 4-digit 7-segment red or green for SD31
Keys	4 rubber tactile	4 rubber tactile
Programmable Key Functions	No	No
Communications	Modbus RTU 485	Modbus RTU 485
Power Supply	85-264 VAC 20-28 VAC 12-40 VDC	85-264 VAC 20-28 VAC
Panel Seal Rating	UL 50/NEMA 4X/IP66	UL 50/NEMA 4X/IP65
Warranty	3 Years	3 Years
Agency Approvals	UL/EN/CSA 61010-1 CE - RoHS and W.E.E compliant ODVA-Ethernet/IP Compliance UL ANSI/ISA 12.1201-2001, Class 1 Div 2	UL/EN/CSA 61010-1 CSA CE NSF-2

Series SD 1/16 DIN to EZ-ZONE® PM 1/16 DIN Comparison Guide:

Controller Attributes	EZ-ZONE PM 6	Series SD 6
Control Modes	Heat/cool, on/off, P, PI, PD, PID or alarm	Heat/cool, on/off, P, PI, PD, PID or alarm
Number of PID Loops	1	1
Number of Integrated Limit Loops	0 or 1	0
Enhanced Control Functions	No	No
Slidewire Feedback	No	No
Current Monitoring	Yes	No
Timer	No	No
Front Panel Removable	Yes	Yes
Sensor Input	Universal	Universal
Thermistor Input	Yes	No
Control Update Rate	10Hz	6.5Hz
Accuracy	+/- 0.1% of span	+/- 0.1% of span
Auto Tune	Yes	Yes
Adaptive Tune	TRU-TUNE®	TRU-TUNE®
Programmable Menu	Yes	Yes
Analog (Sensor) Input Capacity	1 or 2	1
Digital Input Capacity	0 to 2	0
Analog (Process) Output Capacity	0 to 2	0 to 2
Digital Output Capacity	0 to 2	0
Number of Outputs	1 to 6	1 to 3
Power output	15A NO-ARC 5A mechanical relay	2A mechanical relay
Event Input	Yes	No
Profiling	Yes	Yes
Retransmit	Yes	Yes
Display	Dual 4-digit 7-segment red/green	Dual 4-digit 7-segment red/green or red/red
Keys	5 rubber tactile	4 rubber tactile
Programmable Key Functions	Yes, EZ key	No
Communications	Modbus RTU 485 Ethernet/IP /Modbus TCP DeviceNet Profibus DP	Modbus RTU 485
Power Supply	85-264 VAC 20-28 VAC 12-40 VDC	85-264 VAC 20-28 VAC
Panel Seal Rating	UL 50/NEMA 4X/IP66	UL 50/NEMA 4X/IP65
Warranty	3 Years	3 Years
Agency Approvals	UL/EN/CSA 61010-1 CE - RoHS and W.E.E compliant ODVA-Ethernet/IP Compliance UL ANSI/ISA 12.1201-2001, Class 1 Div 2	UL/EN/CSA 61010-1 CSA CE NSF-2

Series SD 1/8 DIN to EZ-ZONE® PM 1/8 DIN Comparison Guide:

Controller Attributes	EZ-ZONE PM 8/9	Series SD 8/9
Control Modes	Heat/cool, on/off, P, PI, PD, PID or alarm	Heat/cool, on/off, P, PI, PD, PID or alarm
Number of PID Loops	1 or 2	1
Number of Integrated Limit Loops	0 or 1	0
Enhanced Control Functions	Cascade, Ratio, Differential, Square-Root, Compressor, Humidity, Motorized Valve	No
Slidewire Feedback	No - use Motorized Valve control instead	No
Current Monitoring	Yes	No
Timer	No	No
Front Panel Removable	Yes	Yes
Sensor Input	Universal	Universal
Thermistor Input	Yes	No
Control Update Rate	10Hz	6.5Hz
Accuracy	+/- 0.1% of span	+/- 0.1% of span
Auto Tune	Yes	Yes
Adaptive Tune	TRU-TUNE®	TRU-TUNE®
Programmable Menu	Yes	Yes
Analog (Sensor) Input Capacity	1 or 2	1
Digital Input Capacity	0 to 8	0
Analog (Process) Output Capacity	0 to 2	0 to 2
Digital Output Capacity	0 to 8	0
Number of Outputs	1 to 12	1 to 3
Power output	15A NO-ARC 5A mechanical relay	2A mechanical relay
Event Input	Yes	No
Profiling	Yes	Yes
Retransmit	Yes	Yes
Display	Dual 4-digit 7-segment red/green	Dual 4-digit 7-segment red/green or red/red
Keys	6 rubber tactile	4 rubber tactile
Programmable Key Functions	2 EZ keys	No
Communications	Modbus RTU 485 Ethernet/IP /Modbus TCP DeviceNet Profibus DP	Modbus RTU 485
Power Supply	85-264 VAC 20-28 VAC 12-40 VDC	85-264 VAC 20-28 VAC
Panel Seal Rating	UL 50/NEMA 4X/IP66	UL 50/NEMA 4X/IP65
Warranty	3 Years	3 Years
Agency Approvals	UL/EN/CSA 61010-1 CE - RoHS and W.E.E compliant ODVA-Ethernet/IP Compliance UL ANSI/ISA 12.1201-2001, Class 1 Div 2	UL/EN/CSA 61010-1 CSA CE NSF-2

Series SD 1/4 DIN to EZ-ZONE PM 1/4 DIN Comparison Guide:

Controller Attributes	EZ-ZONE PM 4	Series SD 4
Control Modes	Heat/cool, on/off, P, PI, PD, PID or alarm	Heat/cool, on/off, P, PI, PD, PID or alarm
Number of PID Loops	1 or 2	1
Number of Integrated Limit Loops	0 or 1	0
Enhanced Control Functions	Cascade, Ratio, Differential, Square-Root, Compressor, Humidity, Motorized Valve	No
Slidewire Feedback	No - use Motorized Valve control instead	No
Current Monitoring	Yes	No
Timer	No	No
Front Panel Removable	Yes	Yes
Sensor Input	Universal	Universal
Thermistor Input	Yes	No
Control Update Rate	10Hz	6.5Hz
Accuracy	+/- 0.1% of span	+/- 0.1% of span
Auto Tune	Yes	Yes
Adaptive Tune	TRU-TUNE®	TRU-TUNE®
Programmable Menu	Yes	Yes
Analog (Sensor) Input Capacity	1 or 2	1
Digital Input Capacity	0 to 8	0
Analog (Process) Output Capacity	0 to 2	0 to 2
Digital Output Capacity	0 to 8	0
Number of Outputs	1 to 12	1 to 3
Power output	15A NO-ARC 5A mechanical relay	2A mechanical relay
Event Input	Yes	No
Profiling	Yes	Yes
Retransmit	Yes	Yes
Display	Dual 4-digit 7-segment red/green	Dual 4-digit 7-segment red/green or red/red
Keys	6 rubber tactile	4 rubber tactile
Programmable Key Functions	2 EZ keys	No
Communications	Modbus RTU 485 Ethernet/IP /Modbus TCP DeviceNet Profibus DP	Modbus RTU 485
Power Supply	85-264 VAC 20-28 VAC 12-40 VDC	85-264 VAC 20-28 VAC
Panel Seal Rating	UL 50/NEMA 4X/IP66	UL 50/NEMA 4X/IP65
Warranty	3 Years	3 Years
Agency Approvals	UL/EN/CSA 61010-1 CE - RoHS and W.E.E compliant ODVA-Ethernet/IP Compliance UL ANSI/ISA 12.1201-2001, Class 1 Div 2	UL/EN/CSA 61010-1 CSA CE NSF-2