The following table compares 'equivalent' models between the SR and APB product families.

PRODUCT	Description				SR	APB	$ Diff
	PWR	IN	OUT	Features/Description			
12MRA	120 AC	8	4 RL	AC, Basic unit, Relay Out	75	85	14
12MRD	24 DC	8(6)	4 RL	DC, Basic unit, Relay Out	65	79	14
12MTD	24 DC	8(6)	4 NPN	DC, Basic unit, NPN Out	65	79	14
12MGD	24 DC	8(6)	4 PNP	DC, Basic unit, PNP Out	65	79	14
12MRAL	**120 AC**	**8**	**4 RL**	**AC, Basic, Relay Out, w/HMI**	**89**	**99**	**14**
12MRDL	**24 DC**	**8(6?8)**	**4 RL**	**DC, Basic, Relay Out, w/HMI**	**85**	**99**	**14**
12MTDL	**24 DC**	**8(6?8)**	**4 NPN**	**DC, Basic, NPN Out, w/HMI**	**85**	**99**	**14**
12MGDL	**24 DC**	**8(6?8)**	**4 PNP**	**DC, Basic, PNP Out, w/HMI**	**85**	**99**	**14**
22MRA	120 AC	14	8 RL	AC, Expanded unit, Relay Out	114	138	24
22MRD	24 DC	14(8?12)	8 RL	DC, Expanded unit, Relay Out	105	129	24
22MTD	24 DC	14(8?12)	8 NPN	DC, Expanded unit, NPN Out	105	129	24
22MGD	24 DC	14(8?12)	8 PNP	DC, Expanded unit, PNP Out	105	129	24
22MRAL	**120 AC**	**14**	**8 RL**	**AC, Expanded, Relay Out, w/HMI**	**129**	**149**	**24**
22MRDL	**24 DC**	**14(8?12)**	**8 RL**	**DC, Expanded, Relay Out, w/HMI**	**123**	**145**	**24**
22MTDL	**24 DC**	**14(8?12)**	**8 NPN**	**DC, Expanded, NPN Out, w/HMI**	**123**	**145**	**24**
22MGDL	**24 DC**	**14(8?12)**	**8 PNP**	**DC, Expanded, PNP Out, w/HMI**	**123**	**145**	**24**
20?22ERA	120 AC	12	8 RL	AC Expansion Module, Relay Out	89	95	**6**
20?22ERD	24 DC	12	8 RL	DC Expansion Module, Relay Out	85	91	**6**
20?22ETD	24 DC	12	8 NPN	DC Expansion Module, NPN Out	85	91	**6**
20?22EGD	24 DC	12	8 PNP	DC Expansion Module, PNP Out	85	91	**6**

The following tables summarizes the differences (hardware & software) between the SR products and the APB products.

I/O CAPABILITY	Digital Inputs	H.S. Inputs	Analog Inputs	4-20 mA Inputs	Digital Outputs	H.S. Outputs	4-20 mA Outputs
SR-12MxD	8		6		4		
SR-22MxD	14		8		8		
SR-20ExD	12				8		
APB-12MxD	8	**4**	**8**		4	**2**	
APB-22MxD	14	**4**	**12**		8	**2**	
APB-24MRD	14	**4**	**12**	**2**	6	**4**	**2**

APB-22ExD	**14**	**8**			8		

SOFTWARE CAPABILITY	**SR Family**	**APB Family**	**Comments**
Number of Blocks	128	320	
Programming Support	SuperCAD	APB Cad	APB provides multiple programming pages, support for Math on analog, Data Registers for intermediate values, greater flexibility in having program VARIABLES affect control flow (timer values etc.)
Real Time Clock	X	X	APB provides battery backup option. SR relies on 'supercap' technology (~ 100 hours).
AND	4 inputs	8 inputs	For SR products, each 'logical' function block supports 4 inputs. For APB products, each 'logical' function block supports 8 inputs, eliminating the need to chain blocks in more complex expressions. For example, if an OUTPUT is to be activated if 5 inputs are active the SR controller would require 2 AND blocks and an OR block whereas the APB controller would accept the 5 inputs into 1 AND block. An 'X' indicates equivalent functionality. A '–' indicates the unit does not support the feature.
AND (Borderline Detect)	4 inputs	8 inputs	
OR	4 inputs	8 inputs	
NOT	X	X	
XOR	X	X	
NAND	4 inputs	8 inputs	
NAND (Borderline Detect)	4 inputs	8 inputs	
NOR	4 inputs	8 inputs	
OR (Rising Edge Detect)	–	8 inputs	
OR (Falling Edge Detect)	–	8 inputs	
ON Delay (TOND)	X	X	Delay the turn-on of a signal
OFF Delay (TOFD)	X	X	Delay the turn-off of a signal
ON/OFF Delay (TONF)	–	X	Delay turn-on and turn-off of a signal
ONE SHOT (PONS)	X	X	Generate pulse when triggered
Single P.B. (SPBL)	X	X	Toggle output on each input trigger
Blinker (BLNK)	X	X	Generate constant pulse output when active
Delay Maintain (MTOD)	X	X	Single pulse output
RS Relay (TPBL)	X	X	Set/Reset flip/flop
Counter (UDCT)	X	X	Up/Down counter
Scheduler (SCHD)	X	X	Time based scheduler (128 presets day/week/yr)
Time Sequence (TSEQ)	X	X	Time based sequencer (8 outputs)
Step Sequence (SSEQ)	X	X	Pulse based sequencer (8 outputs)
Hour Adjust (HOUR)	X	X	Adjust RTC hour +1
Timer/Counter Compare (T/C-CMPR)	X	X	Compare analog/timer/counters
Light Sequencer (STLT)	–	X	3 Stage Time-ON-Time-OFF-Time_ON
Multi-function (MULT)	–	X	Special function Timed sequence

LCD Editor (SLCD)	X	X	APB is bit mapped graphics
Freq. Threshold Trigger (FTH)	–	X	Frequency checking
A+ B- Counter (A+B-)	–	X	Complex counter
Tow-phase Counter (2PCT)	–	X	Complex counter
Pulse PTO Output (PTO)	–	X	Pulse Output
PWM Output (PWM)	–	X	Pulse Width Modulated output
Accel/Decel Pulse (ACC)	–	X	Frequency generation
Analog Comparator (CMPR)	–	X	Compare analog values
Analog Threshold (THRD)	–	X	Analog Threshold detection
Analog Amplifier (AMPT)	–	X	Analog Amplifier
Analog Watchdog (AWDT)	–	X	Analog watchdog with hysteris
Analog Multiplexer (AMUX)	–	X	Analog multiplexer
Analog Differential (WARP)	–	X	Differential Amplifier
Analog Math (MATH)	–	X	4 operand/3 operator math equation evaluation
Digital Input (IN)	X	X	APB supports wider range of mapping
Digital Output (OUT)	X	X	APB supports wider range of mapping
Analog Input (AI)	–	X	APB supports wider range of mapping
Analog Output (AO)	–	X	APB supports wider range of mapping
Blank Output (X)	–	X	Internal holding
Register (D)	–	X	Internal holding register
Remote Control Input (RCL)	X	–	APB has no remote control
Telephone Dialer (DOUT)	X	–	APB uses SMS module
Telephone Interface (D-IN)	X	–	APB uses SMS module
Message Player (PMSG)	X	–	APB has no voice output
Interconnect (CONT)	X	–	APB has BLANK OUPUT (X)
SMS Module Interface (SMS)	–	X	SMS provides direct access to Cell Phone network thru the APB-SMS module.
---	X	X	Modbus interface accesses Function Block internal Registers. Use of D registers with APB greatly expands this capability.