

## Comparison Table for Smaller Dataloggers

FEATURE	CR200X Series	CR800/CR850	CR1000
Max. Scan Rate (Hz)	1	100	100
Analog Inputs	5 SE (no diff) (see note 1)	6 SE or 3 diff	16 SE or 8 diff
Pulse Counters	2	2	2
Switched Excitation Channels	2 voltage	2 voltage	3 voltage
Digital Ports (see note 2)	2 I/Os	4 I/Os or 2 RS-232 COM (see note 3)	8 I/Os or 4 RS-232 COM (see note 3)
Continuous Analog Outputs	0	0	0
Communications/ Data Storage Ports	1 RS-232 (see note 4)	1 CS I/O, 1 RS-232	1 CS I/O, 1 RS-232 1 Parallel Peripheral
Input Voltage Range (Vdc)	0 ≤ V < 2.5	±5	±5
Analog Voltage Accuracy	±(0.25% of reading + 1.2 mV offset), -40° to +50°C	±(0.06% of reading + offset), 0° to 40°C	±(0.06% of reading + offset), 0° to 40°C
Analog Resolution	to 0.6 mV	to 0.33 μV	to 0.33 μV
A/D Bits	12	13	13
Temperature Range (°C)	-40 to +50	-25 to +50 (standard) -55 to +85 (extended, CR800) -30 to +80 (extended, CR850)	-25 to +50 (standard) -55 to +85 (extended)
Memory (bytes)	up to 19.6 k (compiled program), 512 k (data storage), 106 k (operating system)	2 M Flash (operating system) 4 M (CPU usage, program storage, and data storage)	2 M Flash (operating system) 4 M (CPU usage, program storage, and data storage)
Power Requirements (Vdc)	7 to 16	9.6 to 16	9.6 to 16
Typical Current Drain (mA)	~0.2 (quiescent, no radio) ~3 (active, no radio)	~0.6 (sleep mode) 1 to 16 (w/o RS-232 comm.) 17 to 28 (w/RS-232 comm.)	~0.6 (sleep mode) 1 to 16 (w/o RS-232 comm.) 17 to 28 (w/RS-232 comm.)
Dimensions (inches)	5.5 x 3.0 x 1.9	9.5 x 4.1 x 2	9.4 x 4.0 x 2.4
Weight (lbs)	0.5 (CR200X, CR295X) 0.6 (CR206X, CR211X, CR216X)	1.5	2.1
SDI-12 Supported	yes	yes	yes
PARBus Supported	leaf node only	yes	yes
Modbus Supported	yes	yes	yes
DNP3 Supported	no	yes	yes
CE Compliant	CR200X, CR206X, CR211X, CR216X	yes	yes
Warranty	3 year	3 years	3 years

<i>Software Supported</i>			
Short Cut	yes	yes	yes
PC200W	yes	yes	yes
PC400	1.0 or higher	1.4 or higher	1.2 or higher
LoggerNet	2.1 or higher	3.3 or higher	3.0 or higher
RTDAQ	no	yes	yes
PConnect	3.0 or higher	3.3 or higher	3.1 or higher
PConnectCE	2.0 or higher	2.2 or higher	2.0 or higher

*Notes:*

1. The single-ended analog inputs on the CR200X-series dataloggers can also be used as control ports.
2. Certain digital ports can be used to count switch closures.
3. For the CR800, CR850, and CR1000, the I/O ports can be paired as transmit and receive for measuring smart serial sensors.
4. The CR295X has an additional RS-232 port for satellite communications.
5. We recommend you confirm system configuration and critical specifications with Campbell Scientific before purchase.