



Australian Government

National Solar Schools Program

Data Collection, Storage and Visualisation System Approved Components List 5 November 2009

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The information in this document has been compiled from applications received from component manufacturers, distributors and suppliers. The listed components may be available from suppliers not listed in this document and may be purchased from any supplier without compromising the component's approval. Investigating alternative suppliers is at the user's discretion.

Communications Equipment		
Component Details ① New to list since date last published	Component Type	Supplier ☑ Component is also offered as part of a package
ADAM 1 port RS-232/422/485 Serial Device Server (ADAM-4571) ①	RS232/422/485 to ethernet/wireless serial device server	AZZO Automation
Advantech 1 port RS-232/422/485 Serial Device Server (EKI-1521) ①	RS232/422/485 to ethernet/wireless serial device server	AZZO Automation
Advantech 1 port RS-232/422/485 to 802.11b/g WLAN Serial Device Server (EKI-1351) ①	RS232/422/485 to ethernet/wireless serial device server	AZZO Automation
Advantech 1 port RS-232/422/485 to 802.11b/g WLAN Serial Device Server (EKI-1221) ①	1 port RS232/422/285 ModBus gateway	AZZO Automation
Datacall Gateway	3G Gateway	Datacall Telemetry Pty Ltd ☑
Datacall Gateway F ①	Wireless sensor network gateway	Datacall Telemetry Pty Ltd ☑
Datacall Sustainable School Fleck D	Wireless sensor	Datacall Telemetry Pty Ltd ☑
Energy Tracking Web Enabled Meter WEM-MX-333mV	Meter with integrated web server	Veederline Pty Ltd
Energytracker Web Enabled Pulse Data Logger WEPM	Pulse data logger with integrated web server	Veederline Pty Ltd
Fronius Datalogging Web Box F-FRO-DWEB (4,240,122)	Data logging gateway	Choice Electric Co
Fronius Sensor Box	Data logger and Fronius RS485 communications device	Fronius International
Greenbox Web Meter GBSWebMeter8-1 ①	Data logging router	The Green Box Solution ☑
ICP Solar Sunsei GreenMeter GM 2000	Data logger	The Green Box Solution ☑
InterCEL SAM 3G Modem	Wireless telecommunications modem	Not specified
Interworld SS-BLT-300PR	RS422/485 to Bluetooth adaptor	Interworld Electronics & Computer Industries (Aust) Pty Ltd
Maxon Unimax	HSPA Ethernet router	Storm Water Australia Pty Ltd ☑
MeterMate Aura CG	Data logging wireless gateway with GPRS	MeterMate Meter Monitoring Service ☑
MeterMate Aura MG	Data logging gateway with GPRS	MeterMate Meter Monitoring Service ☑
Miniweb Interactive Mini Series Mini_3G	Wireless data concentrator and protocol converter	Eltec Energy Services ☑ Innovative SCADA Solutions Pty Ltd
MyEnergyBox EB9100	Data logger & GPRS communications unit	EnergyBank ☑
Outpost Eclipse-T ①	Data logger with GPRS	MeterMate Meter Monitoring Service ☑
SMA School Meterbox	Gateway	SMA Australia Pty Ltd ☑
SMA Sunny Sensorbox	Sensor data communications device	SMA Australia Pty Ltd ☑
Socomec Countis Ci 48520000 ①	Pulse collector transmitting via RS285 using JBUS/ModBus	IPD Industrial Products
Spinwave Pacific A3 Range	Wireless communications system	Spinwave Pacific Pty Ltd ☑
Spinwave Pacific CN Range	Wireless communications system with control	Spinwave Pacific Pty Ltd ☑

Communications Equipment

Sunskool FST Gateway Moxa UC-7110	Gateway and data logger	Storm Water Australia Pty Ltd <input checked="" type="checkbox"/>
Thinlinx Hot-e box	Data logger and controller	solarschools.net <input checked="" type="checkbox"/>
TP-Link Wireless Access Point TL-WA601G TL-WA501G	802.11 wireless access point	Not specified
Wireless Sensor Box WSB-SR/MR ⓘ	Wireless data logger and GPRS unit	Australsun
Wireless Meter Box Reader WMR-SR/MR/LR – S0/CT - EM ⓘ	Wireless data logger and GPRS unit	Australsun
WebBox Buddy WBB – SR/MR/LR/HW – S0/CT - EM ⓘ	Wireless data logger and GPRS unit	Australsun

Data Storage Solutions

Component Details ① New to list since date last published	Component Type	Supplier ☑ Component is also offered as part of a package
ASUS Tek EEE Linux Box B202	Hardware-based onsite primary	Not specified
Aurora Easy Control PVI-AEC-BASIC	Hardware-based	Solar Inverters Pty Ltd
Aurora Easy Control PVI-AEC-LIGHT	Hardware-based	Solar Inverters Pty Ltd
Aurora Easy Control PVI-AEC-PRO	Hardware-based	Solar Inverters Pty Ltd
Cachelan SolarVu Schools Energy Information Enterprise Database Solution	Off-site solution	The Green Box Solution ☑
Centralised Data Storage CENT0001	Off-site solution	Not specified
Datacall Sustainable Schools Server System	Off-site solution	Datacall Telemetry Pty Ltd ☑
Fat Spaniel Technologies PV2 Web	Off-site solution	Storm Water Australia Pty Ltd ☑
Fronius Datalogger Web Box F-FRO-DWEB (4,240,122)	Hardware-based onsite primary	Choice Electric Co
ICP Solar Sunsei Greenmeter	Hardware-based backup only	The Green Box Solution ☑
MeterMate Data Storage	Off-site solution	MeterMate Meter Monitoring Service ☑
Miniweb Interactive Mini Series Mini_3G	Hardware-based onsite primary	Eltec Energy Services ☑ Innovative SCADA Solutions Pty Ltd
myENERGY	Off-site solution	EnergyBank ☑
OMEGA iServer pulse logger IFPX_W MicroServer	Hardware-based backup only	Not specified
PowerLogic ION Enterprise v6.0 IE60-BASE-ENG ①	Software-based	AZZO Automation
Red Lion Data Station Plus DSPSX000 & DSPGT000	Hardware-based onsite primary	Affordable Eco Systems Pty Ltd
Red Lion G303 HMI	Hardware-based onsite primary	Affordable Eco Systems Pty Ltd
Red Lion G306 HMI	Hardware-based onsite primary	Affordable Eco Systems Pty Ltd
Red Lion G308 HMI	Hardware-based onsite primary	Affordable Eco Systems Pty Ltd
Red Lion G310 HMI	Hardware-based onsite primary	Affordable Eco Systems Pty Ltd
Red Lion G315 HMI	Hardware-based onsite primary	Affordable Eco Systems Pty Ltd
SMA Sunny Portal/Webbox	Webbox must be configured so that IP address can be accessed from student computers (see SMA Webbox Manual)	SMA Australia Pty Ltd ☑
Solarmatrix ProLOG-S/E ①	Hardware-based onsite primary	Solarmatrix Pty Ltd
Solarschools.net	Off-site solution	solarschools.net ☑
Spinwave Pacific Lifeguard Monitor	Hardware-based onsite primary	Spinwave Pacific Pty Ltd ☑
Sunskool FST Gateway	Hardware-based backup only	Storm Water Australia Pty Ltd ☑
Thinlinx Hot-e box	Hardware-based backup only	solarschools.net ☑
WebGraphs v2.2	Off-site solution	Testing and Certification Australia

Energy Meters

Component Details ① New to list since date last published	Component Type	Comments	Supplier ☑ Component is also offered as part of a package
AccuEnergy Acuvim II	3 phase	Complies for green and black data	Innovative SCADA Solutions Pty Ltd
AccuEnergy EV167	1 phase smart/digital	Complies for green and black data	Eltec Energy Services ☑
AccuEnergy EV190	1 phase smart/digital	Complies for green and black data	Eltec Energy Services ☑
AMPY EM1200	1 phase bi-directional	Complies for green and black data	Not specified
AMPY EM5300	3 phase bi-directional	Complies for green and black data	Not specified
Crompton Integra 1630	1 or 3 phase bi-directional	Complies for green and black data	Crompton Instruments
Dore Electrics DEMO11 SPKWH80 ①	1 phase	Complies for green and black data	Dore Electrics
Dore Electrics DEMO21 TPKWH80 ①	3 phase	Complies for green and black data	Dore Electrics
Dore Electrics DEMO21 TPKWH5CT ①	3 phase	Complies for green and black data	Dore Electrics
EDMI Atlas MK7A	1 phase smart/digital	Complies for green and black data	EDMI Pty Ltd
EDMI Atlas MK7C	1 phase smart/digital	Complies for green and black data	EDMI Pty Ltd
EDMI Atlas MK10	3 phase smart/digital	Complies for green and black data	EDMI Pty Ltd
Electrex Femto PFA6-C11-12	3 phase bi-directional smart/digital	Complies for green and black data	MeterMate Meter Monitoring Service ☑
Electrex Femto PFA6-A11-12	3 phase bi-directional smart/digital	Complies for green and black data	MeterMate Meter Monitoring Service ☑
Electrex Femto PFA6-411-12	3 phase bi-directional smart/digital	Complies for green and black data	MeterMate Meter Monitoring Service ☑
Electrex Femto PFA6-431-12	3 phase bi-directional smart/digital	Complies for green and black data	MeterMate Meter Monitoring Service ☑
Elkor WattsOn	1 or 3 phase bi-directional smart/digital	Complies for green and black data	Storm Water Australia ☑
Energy Tracking Web Enabled Meter WEM-MX-333Mv	1 or 3 phase bi-directional smart/digital	Complies for green and black data	Veederline Pty Ltd
Kaifa DDS67	1 phase bi-directional	Complies for green and black data	Semitech Innovations Pty Ltd
Landis + Gyr EM1000	1 phase smart/digital	Complies for green and black data	The Green Box Solution ☑
Landis + Gyr EM3050	3 phase	Complies for green and black data	The Green Box Solution ☑
Latronics DIN kWh meter	1 phase	Complies for green and black data	Datacall Telemetry Pty Ltd ☑ MeterMate Meter Monitoring Service ☑
Northern Design Power Rail 303 ①	3 phase	Complies for green and black data	The Green Box Solution ☑
Schneider Electric EN40	1 phase smart/digital	Complies for green and black data	Eltec Energy Services ☑ The Green Box Solution ☑ Schneider Electric Pty Ltd

Energy Meters

Component Details ① New to list since date last published	Component Type	Comments	Supplier ☑ Component is also offered as part of a package
Schneider Electric ION6200	1 or 3 phase smart/digital	Complies for green and black data	Eltec Energy Services ☑ Schneider Electric Pty Ltd
Schneider Electric ION7300, PM810MG	1 or 3 phase smart/digital	Complies for green and black data	Schneider Electric Pty Ltd
Schneider Electric ION7330, PM820MG	1 or 3 phase smart/digital	Complies for green and black data	Schneider Electric Pty Ltd
Schneider Electric ION7350, PM850MG, PM870MG	1 or 3 phase smart/digital	Complies for green and black data	Schneider Electric Pty Ltd
Schneider Electric ION7550, ION7650	1 or 3 phase smart/digital	Complies for green and black data	Schneider Electric Pty Ltd
Schneider Electric PM9C	1 or 3 phase smart/digital	Complies for green and black data	Schneider Electric Pty Ltd
Schneider Electric PM9P	1 or 3 phase smart/digital	Complies for green and black data	Schneider Electric Pty Ltd
Socomec Countis AM10 4850AM10 ①	1 phase	Complies for green and black data	IPD Industrial Products
Socomec Countis ATd 48501300 ①	3 phase	Complies for green and black data	IPD Industrial Products
Socomec Countis Atv2 and Ativ2 48502000 and 48502100	3 phase	Complies for green and black data	EnergyBank ☑ IPD Industrial Products
Socomec Diris A20 48250A20 ①	1 or 3 phase smart/digital	Complies for green and black data	IPD Industrial Products
Socomec Diris A40, A41 48250A40 48251A40 ①	1 or 3 phase smart/digital	Complies for green and black data	IPD Industrial Products

Inverter-based Meters

Component Details ① New to list since date last published	Supplier ☑ Component is also offered as part of a package
SMA Sunny Boy	SMA Australia Pty Ltd ☑
SMA Windy Boy	SMA Australia Pty Ltd ☑
SMA Sunny Mini Central (SMC)	SMA Australia Pty Ltd ☑

Temperature Sensors

Component Details ⓘ New to list since date last published	Comments	Supplier ☑ Component is also offered as part of a package
Australsun Temperature Sensor PT100 / PT1000	Includes installation with Australsun GPRS based data loggers	Australsun
CHROMEGA – Constantan T Probe	Approval includes installation with NEWPORT Temperature iServer TCX	Not specified
Dallas Semiconductors/Maxim DS1822	Approval includes installation with ADAM-4018+ or ADAM 4019+ Input Module	The Green Box Solution ☑
Dallas Semiconductors/Maxim DS18B20	Approval includes installation with Embedded Data Systems STP device, connected to a Gateway or Fleck Node	Datacall Telemetry Pty Ltd ☑
Dallas Semiconductors/Maxim DS18B20	Approval includes installation with ADAM-4018+ or ADAM 4019+ Input Module	solarschools.net ☑
Dallas Semiconductors/Maxim DS18S20	Approval includes installation with Wavetherm Wireless Temperature Sensor Approval includes installation with Embedded Data Systems STP device, connected to a Gateway or Fleck Node	MeterMate Meter Monitoring Service ☑
Datanab HVAC Outdoor Temperature Sensor 10K_OAT ⓘ	Includes installation with GBS WebMeter or another device supporting 2 wire connection	The Green Box Solution ☑
Farnell KMI/3X150 (IEC) 7078183	Approval includes installation with ADAM-4018+ or ADAM 4019+ Input Module	Affordable Eco Systems Pty Ltd
Fronius Ambient Temperature Sensor F-FRO S001 (43,0001,1188)	For use with the Fronius Sensorbox	Choice Electric Co
MyEnergy Temperature Sensor EBRTD01	For use with the MyEnergyBox communications device	EnergyBank ☑
NOVUS Relative Humidity and Temperature Transmitter RHT-WM-485-LCD ⓘ	Microprocessor with integrated temperature sensor, transmits via ModBus RTU	AZZO Automation
Omega OL-705 and OL-706 ⓘ	Includes installation with GBS WebMeter or another device supporting 2 wire connection	The Green Box Solution ☑
PowerOne AEC Ambient Temperature Sensor PVI-AEC-T1000-INTEGR	Unit includes converter and provides a voltage output	Solar Inverters Pty Ltd
PowerOne AEC Cell Temperature Sensor PVI-AEC-T100-ADH	Unit includes converter and provides a voltage output	Solar Inverters Pty Ltd
SMA Ambient Temperature Sensor PT-100	Approval includes installation with SMA Sensorbox	SMA Australia Pty Ltd ☑
Spinwave CN SWS-RH-B6, SWS-TP, SWS-DTB6	Wireless temperature sensors compatible with Spinwave gateway components	Spinwave Pacific Pty Ltd ☑
Spinwave SN SWS-T, SWS-TO, SWS-TOS	Wireless temperature sensors compatible with Spinwave gateway components	Spinwave Pacific Pty Ltd ☑

Temperature Sensors

Component Details ① New to list since date last published	Comments	Supplier ☑ Component is also offered as part of a package
SuperLogics TC-61XKBEX72A	Approval includes installation with ADAM-4018+ or ADAM 4019+ Input Module	Storm Water Australia Pty Ltd ☑
SuperLogics TC-KSTT10722	Approval includes installation with ADAM-4018+ or ADAM 4019+ Input Module	Storm Water Australia Pty Ltd ☑
Thermochron Thermometer DS1921G-F5, DS1920-F5	Output 1 wire protocol – for use with compliant device including Miniweb Interactive Mini Series Mini_3G	Eltec Energy Services ☑
Veederline TC-003 Digital RTD Temperature Transmitter	Installation requires application with a pulse receiver	Veederline Pty Ltd

Web Visualisation

Component Details ① New to list since date last published	Comments	Supplier ☑ Component is also offered as part of a package
Cachelan SolarVu		The Green Box Solution ☑
Datacall Sustainable School ①		Datacall Telemetry Pty Ltd ☑
Eco Learning ①		Eltec Energy Services ☑
myEnergy		EnergyBank ☑
Online Data Viewer CENT0002		Not specified
Solarschools.net		solarschools.net ☑
Solar SETS		CarbonetiX Pty Ltd ☑
Spinwave Pacific Lifeguard Monitor		Spinwave Pacific Pty Ltd ☑
Sunny Portal/Webbox	Sunny Portal must be configured so that energy data is displayed as per: <i>Sunny Portal - Displaying the energy consumption in the Sunny Portal for SCHOOLMETERBOX AU</i> . This document is available from SMA Australia.	SMA Australia Pty Ltd ☑
Sunschool and Insite Manager		Storm Water Australia Pty Ltd ☑
www.metermate.com.au		MeterMate Meter Monitoring Service ☑

Packages*

Name ① New to list since date last published	Company offering package
Datacall Sustainable School ①	Datacall Telemetry Pty Ltd
Eco Learning ①	Eltec Energy Services
The Green Box Solution	The Green Box Solution
MeterMate	MeterMate Meter Monitoring Service
Metropolis Metering	Metropolis Metering Assets Pty Ltd
MyEnergy	EnergyBank
SMA Sunny Portal	SMA Australia Pty Ltd
Solarschools.net	Solarschools.net
Solar SETS	CarbonetiX Pty Ltd
Spinwave Pacific Lifeguard Monitor	Spinwave Pacific Pty Ltd
Sunskool and Insite Manager	Storm Water Australia Pty Ltd

*packages comprise components listed elsewhere in this document

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