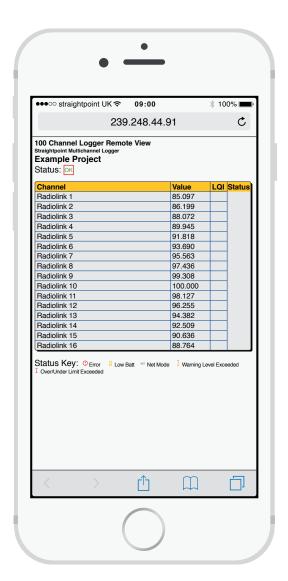
SW-MWLC



Date	Time	Elapsed mS	Radiolink 1	Radiolink 2	Radiolink 3	Radiolink 4	Total Load
10/03/2015	10:41:38	1000	0.01	0	0	0.02	0.03
10/03/2015	10:41:39	2000	0.23	0.16	0.03	0.59	0.73
10/03/2015	10:41:40	3000	3.04	0.16	1.6	2.23	14.17
10/03/2015	10:41:41	4000	5.3	0.94	1.6	7.62	32.45
10/03/2015	10:41:42	5000	5.5	1.9	1.6	8.1	36.72
10/03/2015	10:41:43	6000	8.39	4.09	4.42	9.87	46.37
10/03/2015	10:41:44	7000	9.99	5.11	6.26	12.13	62.56
10/03/2015	10:41:45	8000	11.8	6.43	7.43	19.14	72.8
10/03/2015	10:41:46	9000	11.79	6.2	6.18	17.06	73.85
10/03/2015	10:41:47	10000	8.01	2.43	2.3	12	52.72
10/03/2015	10:41:48	11000	4.94	0.02	0.01	6.09	32.69
10/03/2015	10:41:49	12000	0.06	0.01	0	4.08	15.19
10/03/2015	10:41:50	13000	0	0	0	0	-3.53













Straightpoint's Multiple Wireless Load Cell Controller (SW-MWLC) software package is a versatile, user friendly, wireless load cell control, display and data logging tool designed for use on the Windows PC platforms, Vista, Win 7, 8 & 10.

SW-MWLC allows simultaneous, wireless communication between Straightpoint wireless load cells and a Windows PC. A resizable window displays a table of up to 100 wireless load cell channels of live data. Channels can be setup with user defined mathematical functions that can be used to calculate a multitude of results.

For example, a display can show the value from a single load cell or the sum of multiple load cells. Visual display and audio alarms can indicate under and over range as well as loss in communications, low battery and error reports. SW-MWLC can log on demand, at pre-set intervals, on entering and leaving a pre-set overload and during an overload. Data is logged to a CSV file which can be opened for analysis by software programs such as Microsoft Excel. JSON format data is also available on demand via the built in web server.

For more complex applications, graphical pages can be built showing the data in a variety of formats including digital display or bar graphs. Up to eight pages can be defined and the pages easily navigated between a variety of image formats that can be imported, including JPG, GIF, PDF and DXF.

Custom applications including branding and colour scheme are available. Please contact Straightpoint's sales department for pricing.

SW-MWLC software is supplied with a SW-USBBSE extended range USB transceiver.

Features and benefits:

- Displays and logs data up to 100 Straightpoint wireless load cells simultaneously
- Mapping/graphical capabilities
- Webserver offers remote viewing on iPads/tablets/smart phones and also supplies JSON data on demand
- Logging at timed intervals, manual or on overload/underload
- Visual and audible alarms indicates overload, low battery and communications error
- Zoom in to channel to see data trends and history
- Export and log data in CSV format

Part Number	sw-mwlc
IP rating	IP67
(SW-USBBSE)	NEMA 6
Operating Temp	-20°C to 55°C
	-4°F to 131°F
Licence	Licence free
Frequency	2.4 GHz
Range	700 metres
	2300 feet
Load Cell Inputs	Up to 100
PC Requirements	Intel i3 processor with 2GB RAM
Operating System	Windows XP, Vista, Windows 7, 8 or 10

SW-A01i Wireless base station with analogue output





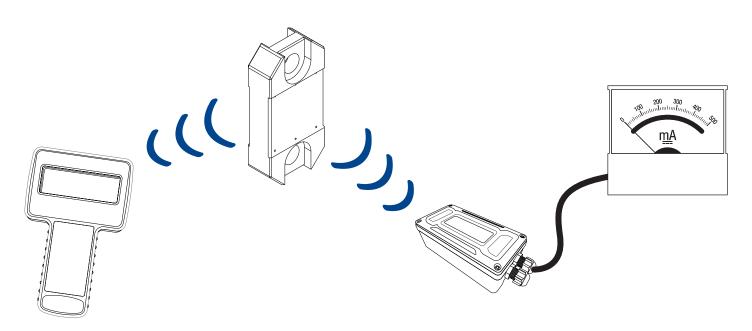
The SW-AO1i provides a configurable analogue output for any single Straightpoint wireless load cell and is ideal for integration to a PC, PLC or other data acquisition system.

Housed in a IP65/NEMA4X enclosure, the output can be selected from pre-calibrated voltage and current ranges of 0-5vdc, +-5vdc, 0-10vdc, +-10vdc, 0-20mA, 4-20mA.

Features and benefits:

- Full option of analogue outputs such as 0-10v & 4-20mA
- Output can be changed in the field to suit different devices
- Wireless connection to load cell
- Fully configurable
- · Wide range for power supply input
- IP65/NEMA 4 Enclosure

Solution



Parameter	Minimum	Typical	Maximum	Units
Licence		Licence exempt		
Modulation method		MS (QPSK)		
Radio type		Transceiver (2 way)		
Data rate		250		K bits/sec
Radio frequency	2.4000		2.4835	GHz
Power		1		mw
Range			700 (2300)	Metres (feet)
Channels (DSSS)		16		





SW-GW1 Modbus RTU/ASCII Gateway



Features and benefits:

- Proprietary 2.4GHz Wireless
- Industry Leading Wireless Range
- Error Free Data Transmission
- Modbus RTU or ASCII interface (RS232/RS485)
- Gathers data from up to 100 transmitters
- Environmentally Sealed (IP65/ NEMA4)

The SW-GW1 is a Modbus interface gateway that provides a simple interface allowing users to gather data from Straightpoint Wireless devices using either the standard Modbus RTU protocol or a simple ASCII protocol.

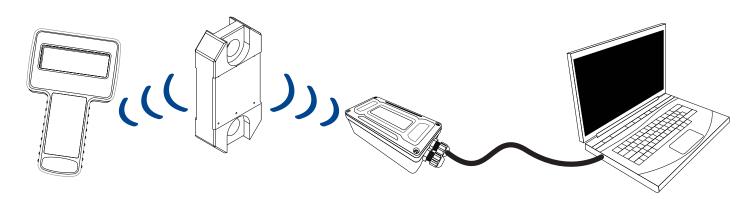
This gateway allows for the collection of data from up to 100 Straightpoint Wireless devices and provides for simple commands such as wake, sleep, and keep awake.

The license-free 2.4GHz Wireless System offers high integrity, error free communications.

The electronics are housed in a NEMA 4/IP65 environmentally sealed enclosure.

The SW-GW1 is ideal for integration to a PC, PLC, or other DAQ system accepting a simple Modbus RTU or ASCII serial communications protocol.

Solution



Parameter	Minimum	Typical	Maximum	Units	Notes
External supply voltage	9	12	32	Volts	
Average operational		TBD	500	mA	
Operating temperature	-40°C (-40°F)		65°C (149°F)	°C (°F)	
Storage temperature	-40°C (-40°F)		65°C (149°F)	°C (°F)	
Reverse polarity			-32	Volts	Maximum supply level
Licence		Licence exempt			
Modulation method		MS (QPSK)			
Radio type		Transceiver (2 way)			
Data type		250		K bits/sec	
Radio frequency	2.4000		2.4835	GHz	
Power		1		mw	
Range			700m / 2300ft	Metres (Feet)*	
Channels (DSSS)		16			

*Maximum range achieved in open field site at height of 9.8 feet (3 metres) above ground.





SW-OAM Wireless overload alarm module





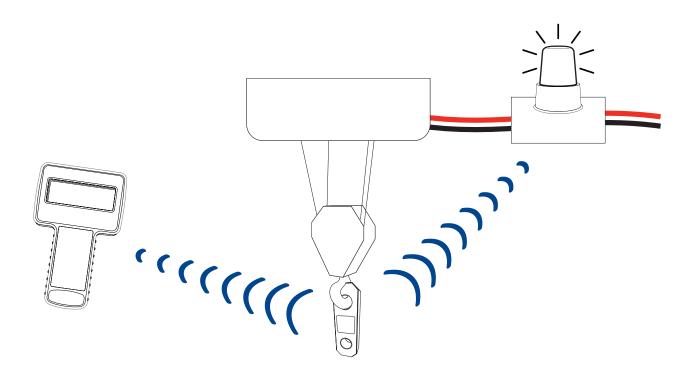
The SW-OAM is a wireless relay module featuring audio and visual warning indicators.

The unit's two set point alarms can be triggered from a single or summed group of up to eight Straightpoint wireless load cells. The SW-OAM is ideal as a wireless overload detection system.

Features and benefits:

- Spare relay contacts to allow connection to other device
- Audible and visual alarm
- Wireless connection to load cell
- Fully configurable
- Wide range for power supply input
- IP65/NEMA 4 Enclosure

Solution



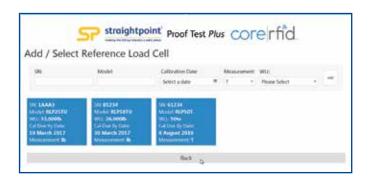
Parameter	Minimum	Typical	Maximum	Units	Notes
Supply voltage range	9	12	32	Volts	
Operational current - no relays active	-	60mA		mA	At 12V supply TBC
Operational current - all relays active	-	80mA		mA	At 12V supply TBC
Operating temperature range	-10°C (14°F)	-	60°C (149°F)	°C (°F)	
Storage temperature range	-20°C (-4°F)	-	65°C (149°F)	°C (°F)	
5 amp relays	-	240V 5A	-		
Range	700m / 2300ft				



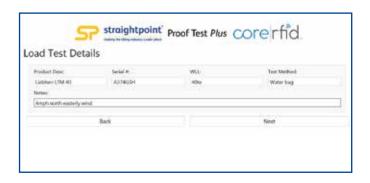




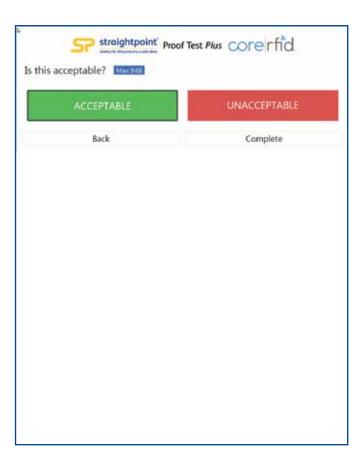
Proof Test plus





















Numerous load testing applications worldwide require a load cell to verify the load applied. From crane testing using water bags to pad eye testing using hydraulic tools, the need to document test procedure and results has never been greater as users of lifting equipment call for more traceability and audit trails.

A proof test is a form of stress test to demonstrate the fitness of a load-bearing structure and is nominally a non-destructive test. Such a structure is often subjected to loads above that expected in normal use, demonstrating safety and design margin.

This demand has increased such that Straightpoint now offer a new software package designed to connect to any of their wireless load cells - 'Prooftest plus'. This impressive package allows the test engineer to wirelessly, and at a safe distance, monitor a proof load test and automatically create a pass or fail certificate when testing is complete. This report in PDF format may then be printed, emailed or uploaded to the cloud, resulting in a traceable document for both test engineer and end customer.

Typical load tests using Straightpoint load cells include:

- · Bollard pull tests
- Tug tests
- Crane Test (Water bags, block weights)
- Pad eye or fly point testing
- Crash barrier testing
- Lifting equipment testing Slings, chains, wire rope, hooks
- Construction equipment testing Shoring columns, acrow props and lintels
- · Lifting and spreader beam testing
- Hydraulic cylinder load test

Features and benefits:

- 100% Wireless, no easily damaged cables
- 700m/2300ft range allows operator to stand at safe distance from test
- Log data at speeds up to 200Hz
- Connects to any Straightpoint wireless load cell
- Automatically creates digitally signed pass or fail certificate
- Real time load v time graph display
- Free entry fields to note wind speed, sea states etc.

Part Number	SW-PTP
IP rating	IP67
(SW-USBBSE)	NEMA 6
Operating Temp	-20°C to 55°C
	-4°F to 131°F
Licence	Licence free
Frequency	2.4 GHz
Range	700 metres
	2300 feet
Load Cell Inputs	1
PC Requirements	Intel i3 processor with 2GB RAM
Operating System	Windows XP, Vista, Windows 7, 8 or 10

SW-RWT Rugged tablet



Features and benefits:

- Light weight platform and ultra-mobility
- Hot-swappable Li-Ion Battery Pack
- Operating Environment
 - MIL-STD-810G Certified
- IP65 Rated protection from sand, dust and water
- · Vivid Display in any Environment
- Windows 10 Enterprise LTSB (64-Bit)
- Standard I/O features RS232, RJ45
- 2 USB Ports and a Micro SD slot

The SW-RWT tablet is the latest generation fully-rugged tablets. Featuring an array of integrated options, and a sleek, sophisticated design, the SW-RWT will change the way you look at tablets. With a MIL-STD-810G rating and Windows® 7 Pro, the SW-RWT can go from the boardroom to the work site without missing a beat.

Exceeding rugged standards

Refined by over a decade of real world customer feedback and experience in the rugged space, the SW-RWT is the most rugged tablet in its class.

Boasting a 5 foot drop rating, the SW-RWT's core construction features a lightweight magnesium alloy mid-frame in an ultra-portable form factor for the utmost rugged reliability.

Featuring MIL-STD-810G and IP65, the SW-RWT is engineered to protect critical lift data under the most demanding conditions.

For in the field critical lifts

Whether using the Straightpoint SW-MWLC multiple loadcell software or our ground breaking Centre of Gravity system the SW-RWT sets the standard for field mobility.

A full shift hot-swappable battery, lasting up to fourteen hours, maximizes time in the field and boosts productivity.

The brilliant outdoor viewable, multi-touch display allows seamless transition from indoor to outdoor use.

Supplied with carrying straps the SW-RWT is an ideal tablet for field applications running the Straightpoint suite of software solutions.







Size 275 mm x 171 mm x 32 mm (10.8" x 6.7" x 1.2")

Weight 1.3kg (2.9 lbs)

Processor Intel® quad-core N2930 1.83 GHz Processor with 2.16 GHz boost.

Screen 10.1" (16:10) 1920x1200 resolution LED high-brightness MaxView™ Technology.

10 points projective capacitive touch.

Ambient light sensor. Rain and glove mode.

Memory/Disk 4GB DDR3 RAM/128 GB SSD

Operating System Windows 10 Enterprise LTSB (64-bit)

Data Security TPM V1.2

Keyboard/Keypad • Power key

Menu keyTouch Lock keyWindows Home key

2 Programmable HotkeysOn-screen QWERTY soft keyboard

Battery Hot-swappable Li-Ion Battery Pack: Standard battery: 5300 mAh (39.22 Wh) Extended battery: 10600 mAh (78.44 Wh)

Connections 1x USB 2.0 port*

1x USB 3.0 port

1 x 9-pin serial RS-232 port* 1 x VGA* 1 x DC power port* 1 x RJ45 10/100/1000 LAN 1 x microSD Slot, SDXC 1 x Audio/Microphone *IP65 with open cover

Docking Connector Contact Pin Type

1 x External GPS/GLONASS antenna input

1 x External GSM antenna input

Communication Audio: Speaker / Digital Microphone / Headset jack

PAN: Integrated BT v4.0 LE / v2.1

Cellular (WWAN): Sierra Wireless MC7304 / MC354

LTE HSPA+ GSM/GPRS

Wireless LAN: 802.11ac a/b/g, n Dual Band 2.4/5GHz

Navigation Integrated u-blox® NEO-M8N, GPS & GLONASS, WAAS/EGNOS/MSAS-capable

Camera 5 Megapixel Camera + LED flash

Environment

Operating: -20 °C to 60 °C (-4 °F to 140 °F)

MIL-STD-810G, Method 501.5 Procedure II

MIL-STD-810G, Method 502.5 Procedure II, III

Mile-31D-6100, Metriod 302.31 Tocedare II, II

Storage: -40 °C to 70 °C (-40 °F to 158 °F) MIL-STD-810G, Method 501.5 Procedure I MIL-STD-810G, Method 502.5 Procedure I

Drop: 26 drops from 1.22 m (4 ft) to concrete

MIL-STD-810G, Method 516.6 Procedure IV

Vibration: MIL-STD-810G, Method 514.6 Procedure I

Sand & Dust: IP65, IEC60529

Water: IP65, IEC60529

Humidity: MIL-STD-810G, Method 507.5 Procedure II

Altitude: 4572 m / 15.000 ft MIL-STD-810G, Method 500.5 Procedure I

SW-SB Wireless signal booster



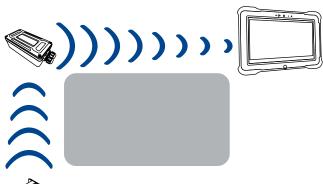
The SW-SB signal booster/repeater module is battery operated and easily pairs to any Straightpoint wireless device.

Within range, a load cell, accessories or software solutions can quickly increase coverage and extend range.

Features and benefits:

- Powered by standard 'D' cell alkaline batteries
- · Long battery life
- 'Self learning' no programming required
- Double range of loadcell to manoeuvre RF around obstacles
- Wide range for power supply input
- IP65 / NEMA 4X Enclosure

Solution







Electrical	Minimum	Typical	Maximum	Units
Battery supply voltage	2.1	3.0	3.6	Vdc
External power supply voltage	5		18	Vdc

Environmental	Minimum	Typical	Maximum	Units
IP rating		IP65 / NEMA 4X		
Operating temperature	-40°C (-40°F)		+65°C (149°F)*	С
Storage temperature	-40°C (-40°F)		+65°C (149°F)	С
Humidity	0		95	% RH
Range	700m / 2300ft			

*Check operating temperature of cells intended for use.





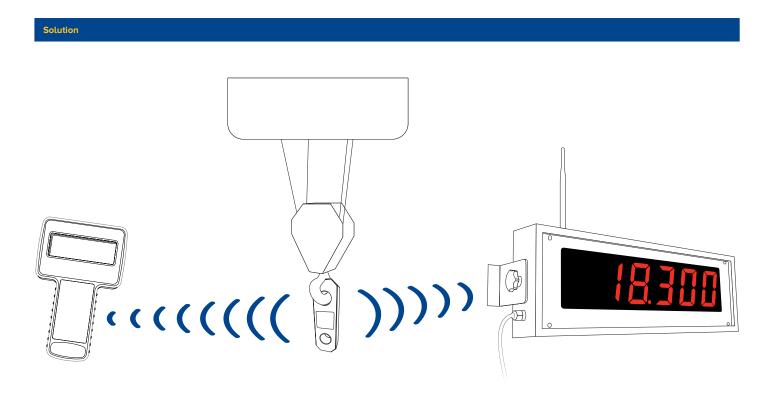


Features and benefits:

- Easy to read 100mm /4" LED display
- Rugged steel case
- · Wall mount brackets supplied
- External antennae for maximum range
- · Wide range for power supply input

This 100mm (4") scoreboard LED display is wireless and viewable for up to 45m/150ft.

Perfect for installation on a crane gantry, the unit operates on 110-240 VAC and displays an individual load or summed load for up to eight Straightpoint wireless devices.



Parameter	Minimum	Typical	Maximum	Units
External supply voltage range	110	240	250	Volts AC
Average operational current	-	1A	3.5A peak	mA
Operating temperature range	-20°C (-4°F)	-	65°C (149°F)	°C (°F)
Storage temperature range	-20°C (-4°F)	-	65°C (149°F)	°C (°F)
Range	700m / 2300ft			





SW-SO Serial output ASCII string module



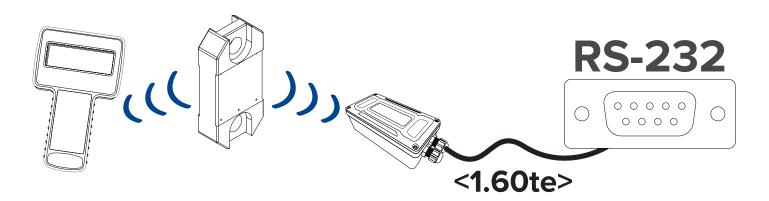
Ideal for integration to a PC, PLC or other device requiring a simple RS232 serial input.

This module allows for a user defined ASCII string which can include individual or summed data from up to eight Straightpoint wireless load cells.

Features and benefits:

- Sums up to 8 loadcells to digital output
- ASCII programmable using tokens
- RS232/RS485 output
- Fully configurable
- Wide range for power supply input
- IP65/NEMA 4 Enclosure

Solution



Parameter	Minimum	Typical	Maximum	Units	Notes
External Supply Voltage	9	12	32	Volts	
Average Operational	-	TBD	500	mA	
Operating Temperature	-40°C (-40°F)	-	65°C (149°F)	°C (°F)	
Storage Temperature	-40°C (-40°F)	-	65°C (149°F)	°C (°F)	
Reverse Polarity		-	-32	Volts	
Licence		Licence exempt			Maximum supply level
Modulation Method		MS (QPSK)			
Radio Type		Transceiver (2 way)			
Data Type		250		K bits/sec	
Radio Frequency	2.4000		2.4835	GHz	
Power		1		mw	
Range			700 (2300)	Metres (Feet)*	
Channels (DSSS)		16			

*Maximum range achieved in open field site at height of 3 metres (9.8 feet) above ground.



