

Single Point System

FEATURES

- 1% of net payload
- Easy to operate
- Extensive Self diagnostic
- Easy two-step calibration
- Post calibration
- Weight set-alarm points
- Supervisor lock-out
- Color TFT graphic display with LED backlight
- **Optional:**
 - Remote display using free smartphone application (through Bluetooth link)
 - Printer
 - Scoreboard

APPLICATIONS

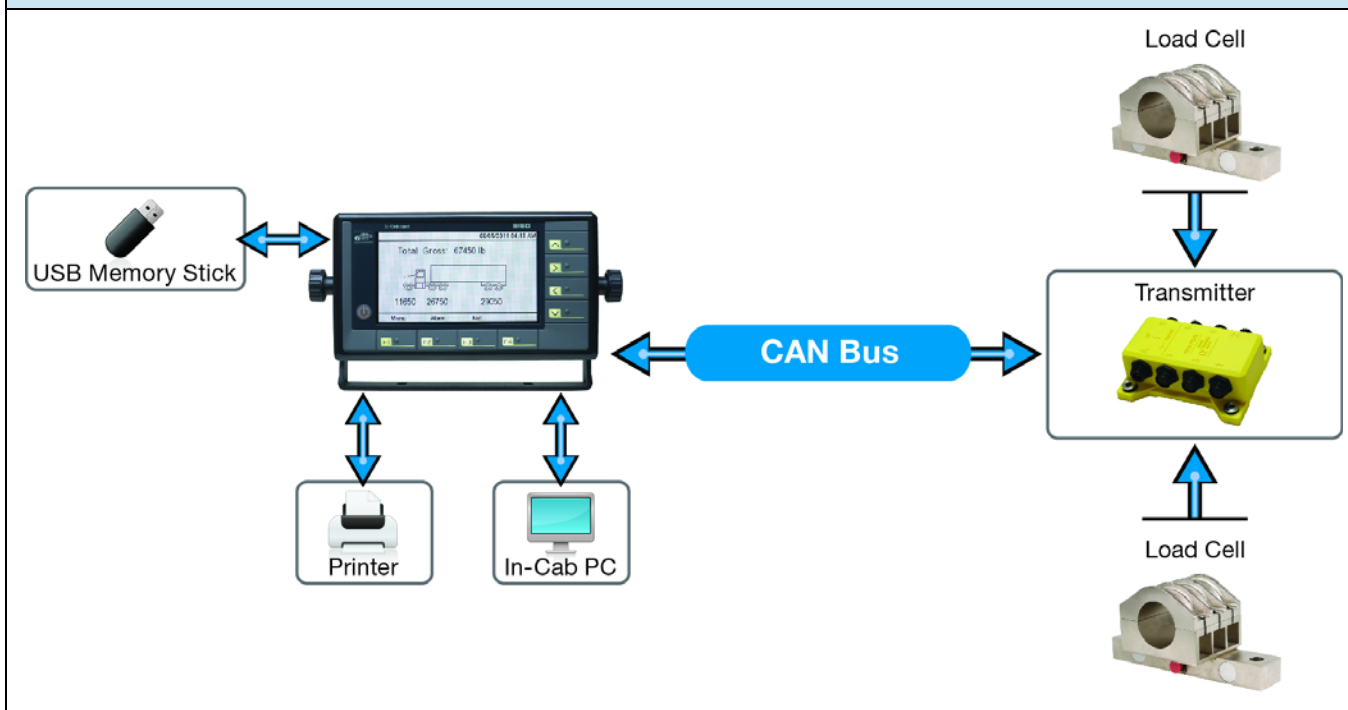
- Bulk hauling
- Aggregate
- Forestry/logging
- Agriculture



DESCRIPTION

The Single Point On-board system provides gross or net vehicle weight for your trailer. The Single Point load cell system provides accurate vehicle weight information for a variety of hauling applications. Designed for both OEM and retrofit installations, the system is easy to install and provides years of trouble free operation. The system is designed for use with all single point trailer suspensions utilizing a 4" trunnion shaft.

SYSTEM BLOCK DIAGRAM



Single Point System

SPECIFICATIONS					
PARAMETERS		DESCRIPTION			
Accuracy		1% of net payload			
Capacity (GVW)		29,000 lbs. (static)			
Number of load cells		2			
Number of Channels		1 or 2			
METER		MIN.	TYP.	MAX.	UNIT
Display		4.3", 480x272, graphic color TFT with LED backlight			
Size		160 x 85 x 25 (W x H x D) 6.3 x 3.34 x 1 (W x H x D)		mm inch	
Count by (Divisions)		1, 10, 20, 50, 100			
Weighing units		Pounds (lbs.) or kilograms (kg)			
Communication		RS232, USB, CAN Bluetooth dongle for smartphone remote control application (Optional)			
Inputs / Outputs	Digital inputs	2			
	Digital outputs	2, solid state, short circuit proof. Triggers: • Alarm condition • Programmable set point level reached (overload or target payload)			
Expansion slots		2			
Audible alarm			75		dB
Setup and calibration		Protected by password			
Remote display		Smartphone application* using Bluetooth link to the meter * Android-based phones, iOS-based phones in development			
Power	Operating voltage	10.5		32	VDC
	Current consumption		40	95	mA
Environmental conditions	Shocks and vibration	Suitable for in-cab automotive environment			
	Humidity (non-condensing)	30		85	% R.H.
	Operating temperature	-4 -20		158 70	°F °C
	Storage temperature	-4 -20		185 85	°F °C
	Protection level	IP20			
TRANSMITTERS		MIN.	TYP.	MAX.	UNIT
Number of load cells		2	4	6	
Sample rate (per load cell)			1		kHz
Load cell excitation voltage			5		VDC
Load cell input range				3	mV/V
Offset drift				10	PPM/°C
Gain drift				5	PPM/°C
Tilt measurement accuracy			0.2		Deg.
Communication		CAN			
Diagnostics		Extensive diagnostics of load cells, hardware and communication			
Power	Input voltage	10.5		32	VDC
	Current consumption with 6 load cells			120	mA

Single Point System

SPECIFICATIONS					
PARAMETERS		DESCRIPTION			
TRANSMITTERS (CONTINUED)		MIN.	TYP.	MAX.	UNIT
Environmental conditions	Shock and vibrations	Per ISO 16750-3 standard			
	Operating temperature	-40 -40		158 70	°F °C
	Storage temperature	-40 -40		185 85	°F °C
	Humidity	100% condensing			
	Protection level	IP67 and IP69K NEMA 4X			
	Resistance to solvent	Per automotive requirements for chassis installed units			
Size		114 x 48 x 140 (W x H x D) 4.5 x 1.9 x 5.5 (W x H x D)		mm inch	
LOAD CELL					
Material	Alloy Steel, Nickel Plated				
Weight	59 lbs				
Size	16.3" long				
Output	0.5 +/- 0.01 mV/V @ 14,500 lbs				
Impedance	350 Ω Minimum				
Capacity (static)	14,500 lbs				



Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.