

Digital CAN Underbody Weighing System

FEATURES

- CAN digital weighing system
- 1% accuracy of net payload
- Graphic color TFT display with LED backlight
- Extensive diagnostics – meter, transmitters, load cells
- Easy setup using wizard menus
- Easy 2-step calibration
- Supports multiple trailers and 5th wheel
- Easy trailer hot swaps
- Interface to printer, in-cab PC, scoreboard, and modem
- **Optional:**
 - Printer, scoreboard

APPLICATIONS

- Forestry / logging
- Bulk haulage
- Aggregates
- Waste management
- Agriculture

DESCRIPTION

The 9150 Weighing System is a digital weighing system based on the automotive CAN standard. It provides gross or net vehicle weight as well as axle group loading and overload alarms for the truck and trailers. Up to eight trailers can be connected to the system. When trailers are swapped, the system automatically reconfigures and sets up the new connected trailer.

The meter's 4.3-inch bright graphic color TFT display with LED backlight allows a wide viewing angle under all lighting conditions. It can be set to day or night display modes according to user selection. Four arrow keys and four soft keys allow easy operation and navigation among the meter menus and modes. Password protected setup wizards makes the system calibration straightforward and intuitive.

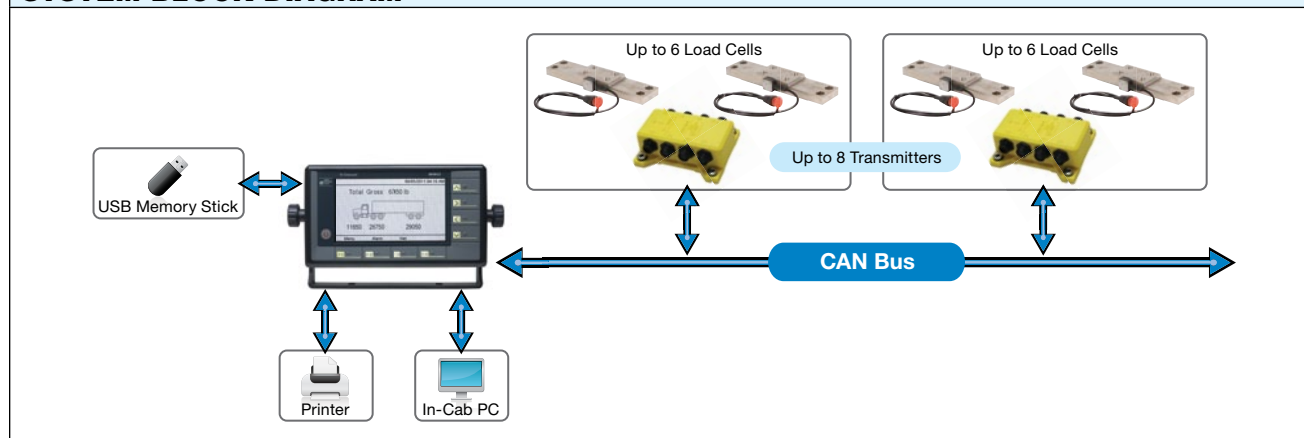


Weight data is displayed graphically on the system diagram, making it intuitive and easy to understand. Alphanumeric tabular display is available as well.

The 9150 meter has RS232 interface to a printer or in-cab PC. The user can set up the ticket formats. A USB interface enables backup and restore of setup parameters and user data.

The system runs real-time diagnostics of the load cells, transmitters, and meter. Faults and alarms are displayed on the screen with an audible alarm. The user may silence the audible alarm and scroll through the error list. Detailed diagnostics screens show the fault location and details for easy maintenance.

SYSTEM BLOCK DIAGRAM



Digital CAN Underbody Weighing System

SPECIFICATIONS					
PARAMETER	MIN.	TYP.	MAX.	UNIT	
SYSTEM					
Accuracy	0.5	1.0	1.5	% F.S.	
Capacity			Unlimited		
Number of load cells	Per transmitter	2	4	6	
	Per system			8	
Number of transmitters	1		8		
Number of channels	1		8		
Communication protocol	CAN				
METER					
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				
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	Optional, using SI Onboard remote hand-held unit (HHR)				
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		158 70	°F °C
		-20		185 85	°F °C
	Storage temperature	-4		185 85	°F °C
Protection level	IP20				
TRANSMITTER					
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	
Environmental conditions	Shock and vibrations	Per ISO 16750-3 standard			
	Operating temperature	-40		158 70	°F °C
		-40		185 85	°F °C
	Storage temperature	-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	



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.