

Trojan Transducer Suspension-Based Weighing System

FEATURES

- Up to 2% accuracy
- Gross/Net weight displayed with no driver interaction
- Axle group weight displayed with no driver interaction
- Quick and easy installation
- Self-diagnostic
- Easy two-step calibration
- **Optional:**
 - Remote display using free smartphone application (through Bluetooth link)
 - Printer
 - Scoreboard

APPLICATIONS

- Aggregate
- Forestry/logging
- Waste
- Bulk hauling
- Roll offs
- Agriculture
- Dump truck
- Any straight truck

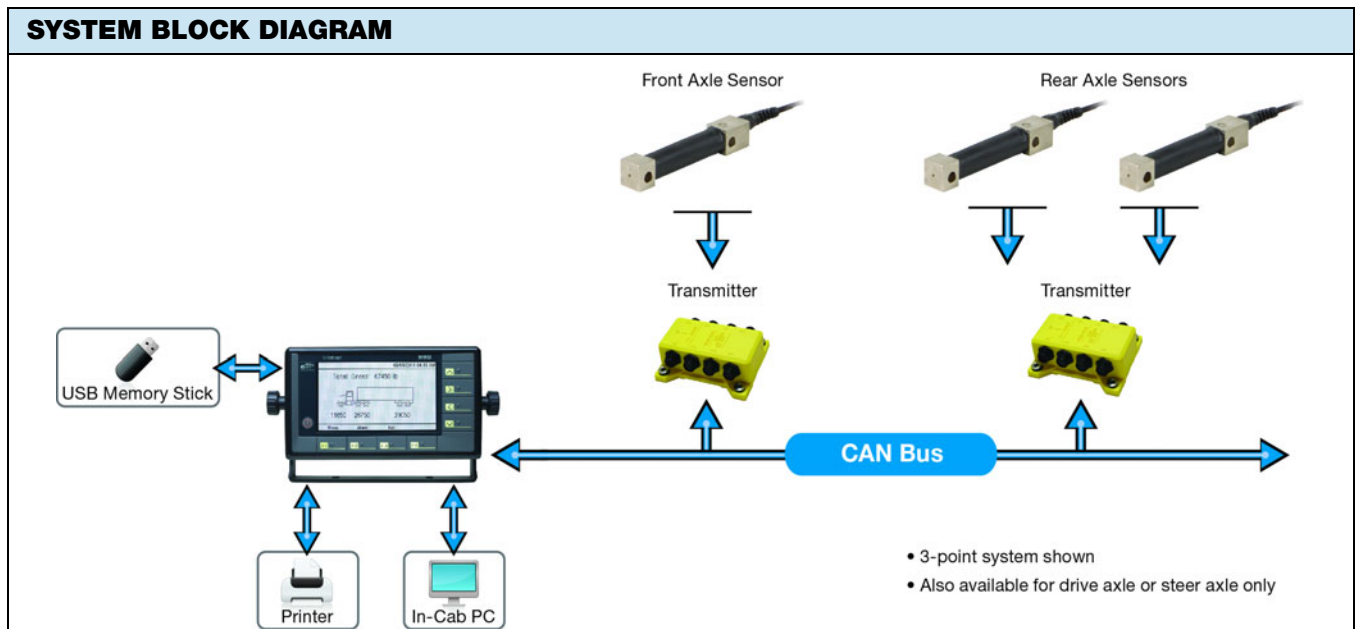


DESCRIPTION

The Trojan Transducer suspension-based scale is designed to provide gross vehicle weight, net payload weight and axle group weights. This information is used in avoiding overload fines, choosing disposal sites, and reducing truck maintenance.

The Trojan Transducer system can be installed on all types of trucks, including roll offs and dump trucks. The system is available for dual rear axle configurations and can be used with pusher, tag or lift axle. Axle group weights are provided for both the front and rear axle groups. Rear only systems are also available.

By design, the Trojan Transducer system does not require disassembly of the vehicle chassis, suspension and/or body for installation. Depending on the vehicle and suspension type, the system normally requires the installation of one Trojan transducer on the front axle and one or two Trojans on the rear suspension members.



Trojan Transducer Suspension-Based Weighing System

SPECIFICATIONS					
PARAMETERS		DESCRIPTION			
Accuracy		Up to 2%			
Capacity (GVW)		unlimited			
Number of load cells		2, 3 or 4			
Number of transmitters/system		1 or 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

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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	
TRANSDUCERS					
Material	Alloy Steel, Nickel Plated				
Weight	2 lbs; 0.9kg; with mounting hardware				
Size	1" D x 1" W x 7" L				
Output	1.6 to 1.75 mV/V @ 7.7 lbs (3.5 kg)				
Impedance	350 Ω Minimum				



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