Center Hanger/Leaf Spring 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
- Graphic TFT color display with LED backlight
- **Optional:**
  - Remote display using hand-held unit (HHR)
  - Printer
  - Scoreboard

APPLICATIONS

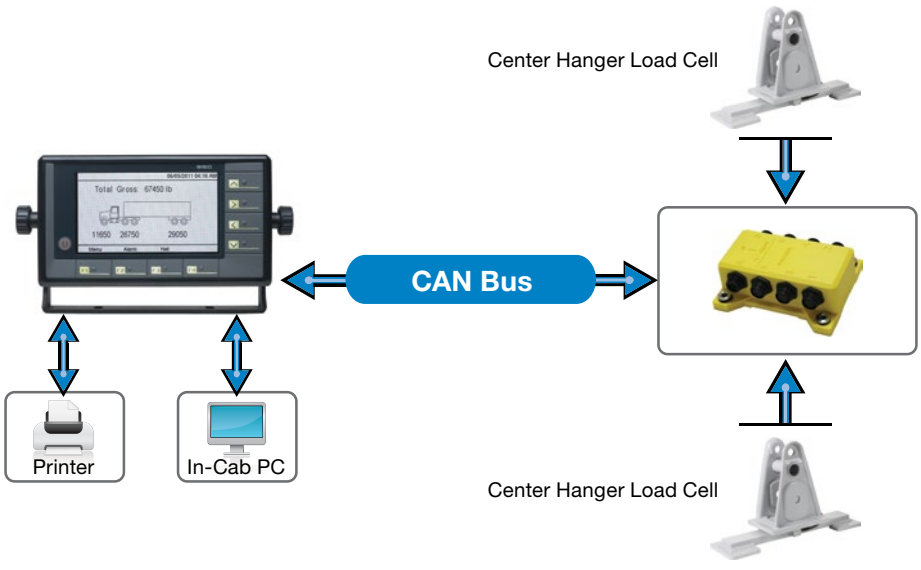
- Bulk hauling
- Waste
- Forestry
- Aggregate
- Dump truck and trailer
- Agriculture

DESCRIPTION

The Center Hanger/Leaf Spring on-board system provides accurate vehicle (net or gross) weight information for a variety of hauling applications. The system provides years of trouble free operation. The system is designed for use with tandem, tridem and quad axle groupings.

SYSTEM BLOCK DIAGRAM

- Typical system for tandem axle grouping shown
- Also available for tridem axle groupings
- Available with or without center hanger attached to load cell from factory



Center Hanger/Leaf Spring On-Board Scale

Center Hanger/Leaf Spring System

SPECIFICATIONS						
PARAMETERS		DESCRIPTION				
SYSTEM						
Accuracy		1% of net payload				
Capacity (GVW)		30,000 lbs. (static)				
Number of load cells		2				
Number of channels		1				
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 (lb) or kilograms (kg)				
Communication		RS232, 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 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 –20		158 70		°F °C
	Storage temperature	–4 –20		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			2.0			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 –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

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Center Hanger/Leaf Spring System

SPECIFICATIONS (Contd)	
PARAMETERS	**DESCRIPTION**
LOAD CELL	
Material	Alloy steel, nickel plated
Weight	53 lb
Size	22” L x 7.4” W
Output	0.600 mV/V @ 15,000 lb
Impedance	350 Ω Minimum
Capacity (static)	15,000 lb

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