

Long Logger 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

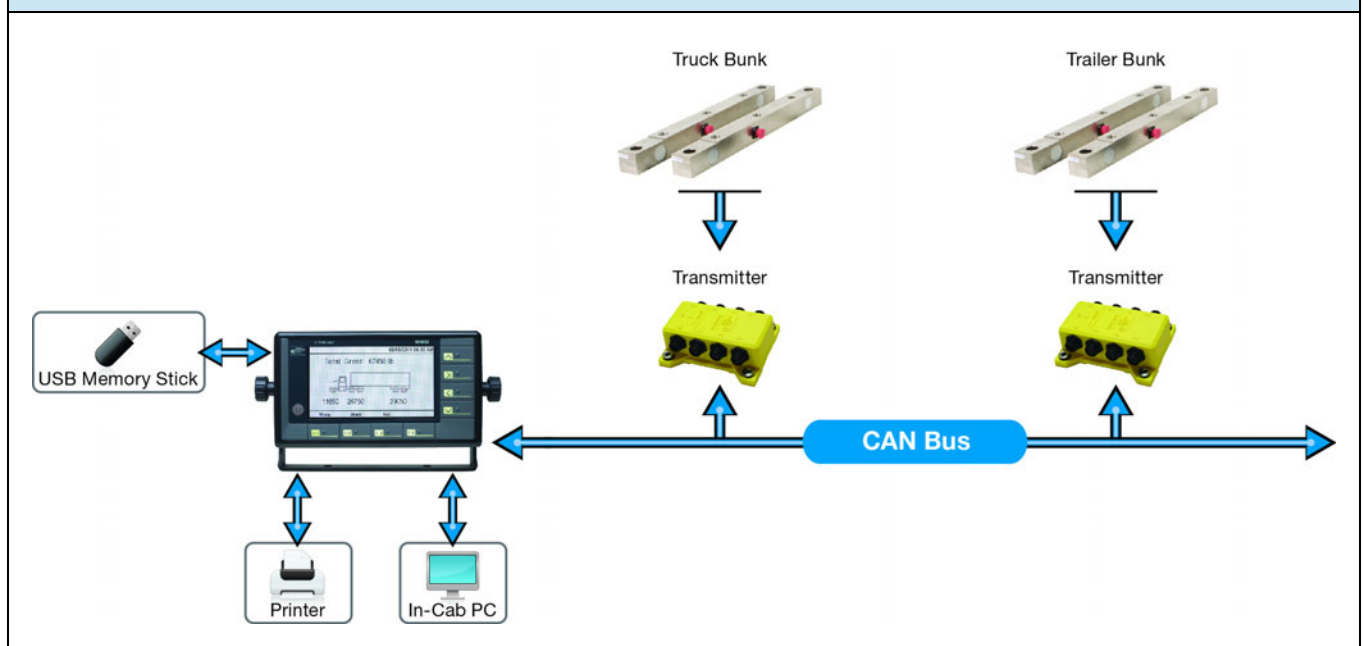
- Forestry/logging
- Bulk hauling
- Aggregate

DESCRIPTION

The Long Logger on-board system provides gross or net vehicle weight for truck and/or trailer. The Long Logger utilizes the double-gaged steel shear-beam load cells for the truck and trailer.

The easy-to-install and operate system consists of load cells and associated bearing plates mounted to support the load, an in-cab meter, truck- or trailer-mounted signal transmitters, and all the necessary wiring.

SYSTEM BLOCK DIAGRAM



Long Logger System

SPECIFICATIONS					
PARAMETERS		MIN.	TYP.	MAX.	UNIT
Accuracy		0.5%	1.0%	1.5%	Full Scale
Capacity				80,000 lbs. (static)	
Number of load cells		4			
Number of transmitters/system		2			
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 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					
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

Long Logger System

SPECIFICATIONS					
PARAMETERS	MIN.	TYP.	MAX.	UNIT	
TRANSMITTERS (CONTINUED)					
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	52 lbs with Mounting Hardware (standard)				
Size		26		Inch	
Rated Output @ 20k lbs.	1.118	1.120	1.122	mV/V	
Impedance	350			ohm	
Capacity	50,000 static, 20,000 dynamic			lbs	



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