

## Short Logger System (US)

### FEATURES

- 1% or  $\pm 100$  pound accuracy
- 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



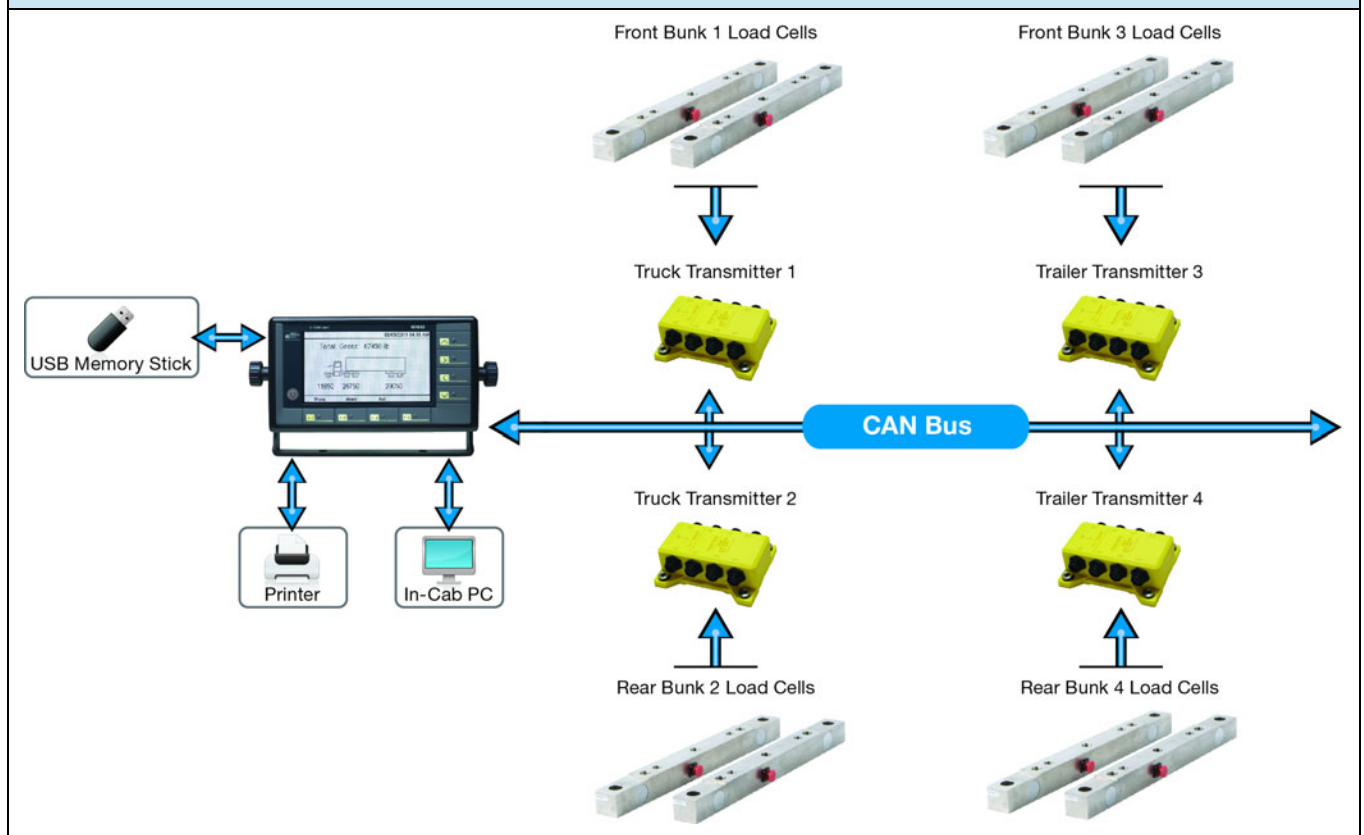
### DESCRIPTION

The Short Logger on-board system provides gross or net vehicle weight for Truck and/or Trailer. The Short Logger utilizes alloy steel shear beam load cells for the truck and trailer. There are thousands of SI Onboard scale systems in use around the world. The systems are well known for increasing profits for owner/operators of the largest fleets in the world.

### APPLICATIONS

- Forestry/logging

### SYSTEM BLOCK DIAGRAM



### Short Logger System (US)

SPECIFICATIONS					
PARAMETERS		MIN.	TYP.	MAX.	UNIT
Accuracy		0.5%	1.0%	1.5%	Full Scale
Capacity				Unlimited	
Number of load cells		2 or 4			
Number of Transmitters per system		2 or 4			
Number of Channels		2 to 4			
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

## Short Logger System (US)

SPECIFICATIONS					
PARAMETERS	MIN.	TYP.	MAX.	UNIT	
<b>TRANSMITTERS (CONTINUED)</b>					
<b>Environmental conditions</b>	<b>Shock and vibrations</b>	Per ISO 16750-3 standard			
	<b>Operating temperature</b>	-40 -40		158 70	°F °C
	<b>Storage temperature</b>	-40 -40		185 85	°F °C
	<b>Humidity</b>	100% condensing			
	<b>Protection level</b>	IP67 and IP69K NEMA 4X			
	<b>Resistance to solvent</b>	Per automotive requirements for chassis installed units			
<b>Size</b>	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	
<b>LOAD CELL</b>					
<b>Material</b>	Alloy Steel, Nickel-Plated				
<b>Weight</b>	52 lb with Mounting Hardware				
<b>Size</b>	2" x 2" x 26"				
<b>Rated Output @ 20k lbs.</b>	1.118	1.120	1.122	mV/V	
<b>Impedance</b>	350			ohm	
<b>Capacity</b>	50,000 static, 20,000 dynamic			lbs	



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