

Body Based Refuse System

FEATURES

- Displays and records individual pick-up weights
- Displays net and gross weight
- Compatible with all packer bodies
- Self-diagnostic
- Easy two-step calibration
- Post calibration capable
- Weigh set-point alarms
- **Optional:**
 - Remote display using free smartphone application (through Bluetooth link)
 - Printer
 - Scoreboard

APPLICATIONS

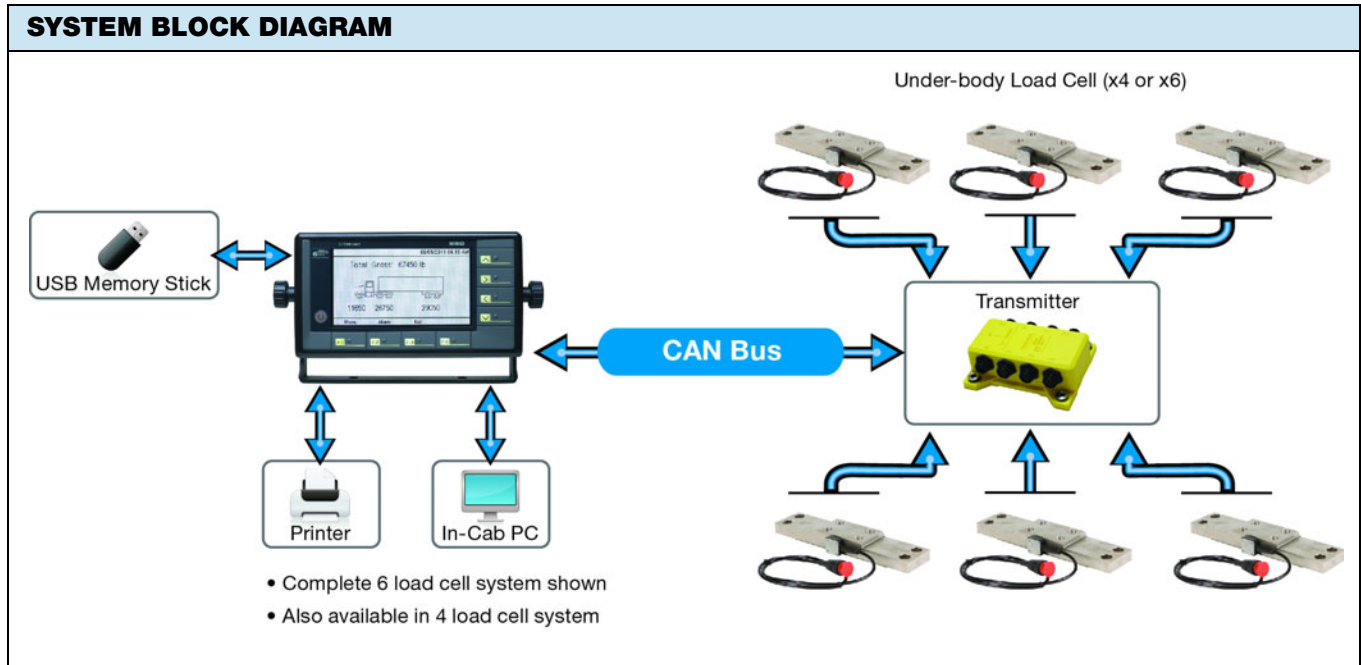
- Waste
- Aggregate
- Load delivery
- Bulk hauling
- Forestry
- Dump truck
- Agriculture
- Straight trucks



DESCRIPTION

The Route Man body-based scale system provides accurate weight measurement of individual containers. This information will improve the profitability of haulers. Commercial accounts are provided information necessary to compare individual account revenues to disposal costs.

The system displays and records gross vehicle weight, net payload weight, individual bin weight, customer ID, time and date. The system is comprised of rugged hardware and software components designed to fit all packer bodies. The system consists of 4 or 6 load cells, bearing plates, signal transmitters, and a meter. Optional mounting kits are available for all types of standard refuse vehicles.



Body Based Refuse System

SI Onboard



Body Based Refuse System

SPECIFICATIONS					
PARAMETERS		DESCRIPTION			
Accuracy		1% or +/- 50lbs of full scale			
Capacity		60,000 lb (6 load cells)			
Number of load cells		4 OR 6			
Number of transmitters/system		1			
Communication method		CAN bus			
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

Body Based Refuse System

SPECIFICATIONS					
PARAMETERS		DESCRIPTION			
TRANSMITTERS (CONTINUED)		MIN.	TYP.	MAX.	UNIT
Environmental conditions	Shock and vibrations	Per ISO 16750-3 standard			
	Operating temperature	-40		158	°F
		-40		70	°C
	Storage temperature	-40		185	°F
		-40		85	°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)		mm	
		4.5 x 1.9 x 5.5 (W x H x D)		inch	
LOAD CELLS					
Material	Nickel-plated alloy steel				
Type	Double ended beam				
Rated capacity	10,000lbs				
Impedance	350 Ω minimum				
Output	0.5 mV/V @ 12,500 pounds				
Weight	22 lbs; 11kg; with mounting hardware				
Size	13" and 17.5"				



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