

# Axle Transducer System

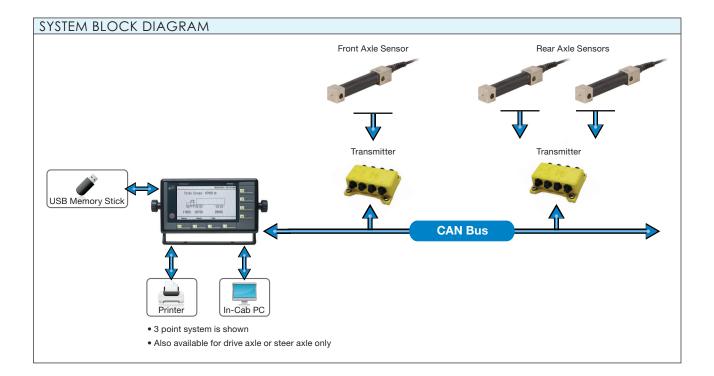
#### FEATURES

- Up to 2% of net payload
- Gross/Net weight displayed with no driver interaction
- Axle group weight displayed with no driver interaction
- Quick and easy installation
- Self-diagnostic
- Two-step calibration
- Optional:
  - Remote display using free smartphone application - Printer
  - Scoreboard
- APPLICATIONS
- Bulk hauling
- Dump truck
- Roll offs
- Forestry
- Waste
- Aggregate
- Agriculture
- Any straight truck



#### DESCRIPTION

The Axle transducer differential housing mounted scale is designed to provide gross vehicle weight, net payload weight and axle group weights. This inforamtion is used in avoiding overload fines, choosing disposal sites, and reducing truck maintemance and liability.



## Axle Transducer System On-Board Scale



### Axle Transducer System

SPECIFICATIO	NS				
PARAMETERS		MIN.	TYP.	MAX.	UNIT
Accuracy			Up to 2	2%	1
Capacity (GVW)			Unlimite	ed	
Number of load cells		2,3 or 4			
Number of transmitters per system		1 or 2			
Number of channels		1 or 2			
METER					
Display			3", 480x272, graphic coloi	r TFT with LED backl	ight
Size		160 x 85 x 25 (W x H x D)			mm
Count by (Divisions)		6.3 x 3.34 x 1 (W x H x D) inch 1, 10, 20, 50, 100			
Weighing units		Pounds (lb) 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 developement			
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	-20 -4 -20		185 85	°F ℃
	Protection level	-20	II IP20	85	
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		0.2 Deg.			
Communication Diagnostics		CAN Extensive diagnostics of load cells, hardware and communication			
_ Input voltage		10.5		32	VDC
Power	Current consumption /6 load cells	10.0		120	mA
	Shock and vibrations	Per ISO 16750-3 standard			
Environmental conditions	Operating temperature	-40 -40		158 70	°F °C
	Storage temperature	-40 -40		185 85	°F °C
	Humidity		100% cond		
	Protection level	IP67 and IP69K; NEMA 4X			
	Resistance to solvent	Per automotive requirements for chassis installed units			units
Size					mm inch
(ransducers					
Material		17-4 Stainless Steel			
Weight		0.8 lbs; 0.36 kg			
Size		9" L x 1.5" H x 0.25" D			
Size Output Impedance			1.6 to 1.75 mV/V @ 350 Ω Min	7.7 lbs (3.5 kg)	