

# SENTINEL wireless (MST-W04-PS)

Sentinel is the Gold Standard when it comes to wireless onboard axle weight monitoring systems for trucks and trailers. The palm size hand held monitor displays gross weight and individual axle weights simultaneously and in real time within a radius of 1500' from the vehicle. In a blink of an eye, the pictogram displays gross weight and axle weights and their distribution. Weights can be displayed in net (payload) or gross (GVW) and selected units (kg, lbs or ton). Pictograms of popular trucks and trailers are available in the monitor's memory. The calibration process is as easy as 123. With accuracy of  $< +/- 1\%$  Sentinel is the right tool for remote work. It allows up to 8 channels (axle groups) to be displayed. Multiple trailers and their calibration are easily stored in the monitor which makes switching trailers easy. Sentinel wireless is as versatile as your needs require.



\*The Sentinel wireless monitor is designed to be used with Sentinel wireless air sensors and/or Sentinel wireless multiplexers and mechanical sensors.

## Specifications:

Type:	Wireless digital weighing system
Channels (axle groups)	up to 8
Signal:	RF, 2.4 GHz
Range:	Up to 400'
Mounting:	Hand held w optional cab mounted bracket
Applications:	Straight body, tractor/trailer, tractor only, trailer only
Sensors:	External
Accuracy:	$< +/- 1\%$ of GVW
Suspensions:	Air, Mechanical, Combination Air & Mechanical
Dimensions:	W 3.75", H 5", D 1"
Weight:	6.6 oz
Display:	LCD w backlight
Power	(2) AA batteries for digital camera
Resolution (air):	.03 psi
Resolution (mec.):	.25 micro strains
Units:	Tons, Lbs, Kilograms
Operating temp.:	-4° f - 125°f
RS 232 output	Optional

# SENTINEL wireless air sensor (SAS-W04) (SAS-WD4)

Cleral's wireless air sensor is compact and accurate. Wireless means no messy sensor cables to install and maintain. The sensor measures small changes in air pressure within the vehicle's air ride suspension system as loads change displaying the pressure changes as weight changes on the hand held Sentinel monitor. The Sentinel Wireless air sensor is able to measure changes as small as .03 lb of air pressure which converts to accuracy and reliability unmatched in the industry.

**(SAS-W04)** 1 inputs



**(SAS-WD4)** 2 inputs

For vehicles equipped with dual levelling valves



Specifications:	SAS-W04 / SAS-WD4
Type:	Wireless digital multiplexer for mechanical sensors
Power:	9v -24v DC
Signal:	RF, 2.4 GHz
Range:	Up to 1500'
Mounting:	External on vehicle line of sight to Sentinel monitor
Applications:	Straight body, tractor/trailer, tractor only, trailer only
Accuracy:	<+/- 1% of GVW
Suspensions:	Air
Dimensions:	W 2", H 3.75", D 1".5"
Resolution (mec.):	.03 psi
Operating temp.	-40° f - 125°f



# **SENTINEL** wireless multiplexer (TM2-W04) (TM4-W04)

The CLERAL multiplexer drives the mechanical sensors used for measuring the weight on mechanical suspension systems. This multi-sensor interface offers great sensitivity, precision, and speed. CLERAL's multiplexers are available with 2 or 4 inputs depending on the number of CLERAL's mechanical sensors required based on the vehicle's suspension configuration.

Digital data transmission is used in the multiplexer to insure accurate and reliable weight measurements regardless of the operating environment. EMI / RFI and length of cable do not impact system performance.

**(TM2-W04)** 2 inputs



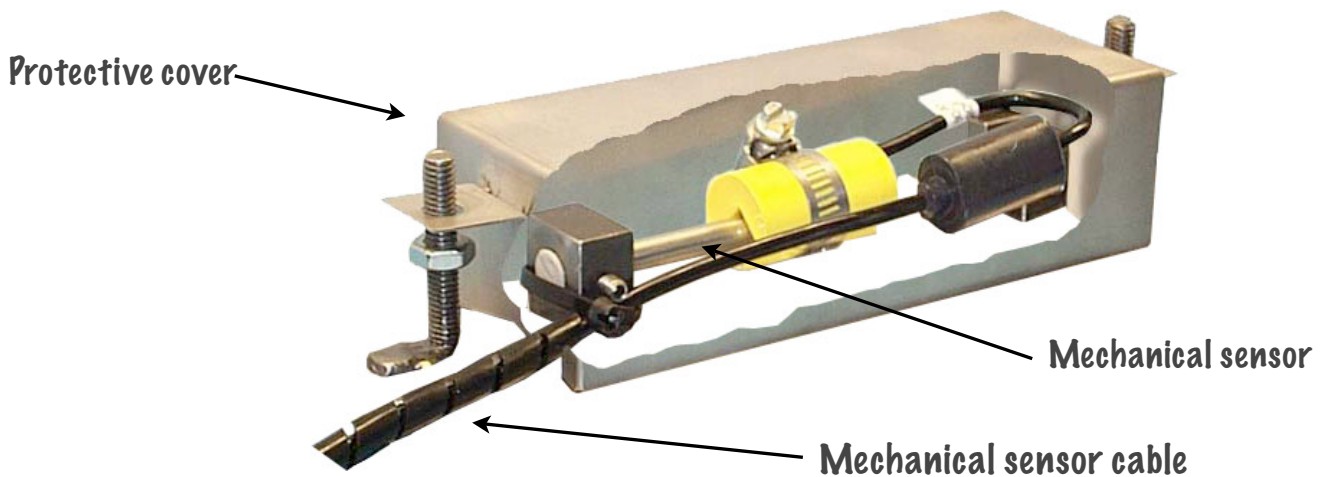
**(TM4-W04)** 4 inputs



Specifications:	TM2-W04 / TM4-W04
Type:	Wireless digital multiplexer for mechanical sensors
Power:	9v -24v DC
Signal:	RF, 2.4 GHz
Range:	Up to 1500'
Mounting:	External on vehicle line of sight to Sentinel monitor
Applications:	Straight body, tractor/trailer, tractor only, trailer only
Accuracy:	<+/- 1% of GVW
Suspensions:	Mechanical
Dimensions:	W 1.5", H 3", D 1.5"
Resolution (mec.):	.25 micro strains
Operating temp.	-40° f - 125°f

## **SENTINEL** mechanical sensor Kit (SMB-004)

CLERAL's exclusive mechanical sensor was developed for mechanical suspensions on tractors and semi-trailers. The installation of these sensors requires no modifications to the vehicle. Innovative dynamic sensor technology makes it the most precise, compact axle weight sensor on the market. Installing the sensor requires no costly vehicle modifications. Stainless steel materials combined with a high tech sealing process provide CLERAL's sensors with long term reliability.



Specifications:	SMB-004 ( MECHANICAL SENSOR & CABLE SENSOR + PROTECTIVE BOX)
Type:	Innovative dynamic mechanical sensors
Power:	9v -24v DC
Mounting:	External on suspension, axle, beam (glue or weld)
Applications:	Straight body, tractor/trailer, tractor only, trailer only
Accuracy:	<+/- 1% of GVW
Suspensions:	Mechanical
Dimensions:	Length 6", Diameter .5"
Resolution:	.25 micro strains
Operating temp.:	-40° f - 125°f
Length of cable	30 '
Connector	Weathertight - NEMA 6P, 13: IEC IP67
Cable Jacket	PVC
Protective cover	Stainless steel