

The Vulcan VSL Digital Pressure Sensors

The highest quality pressure sensors for on-board weighing applications.

The digital **VSL Air Pressure Sensor** can be installed on all trucks and trailers with air-ride suspensions. Vulcan offers a complete line of electronics and 5th wheel truck and trailer suspension load cells for mixed spring and air applications.

The digital **VSL Hydraulic Pressure Sensor** can be installed on vehicles to measure the pressure of the hydraulic hoist cylinders. Vulcan offers a complete line of electronics, and load cells that work in conjunction with the hydraulic pressure sensor to scale dump trucks, roll-offs, hook-lifts, and other configurations.



AIR PRESSURE SENSOR



HYDRAULIC PRESSURE SENSOR

KEY FEATURES AND BENEFITS:

- Sensor and electronics integrated into one compact package
- Easy to install
- Highly reliable, no moving parts
- Rugged, stainless steel pressure sensor for harsh environments
- Eliminate overweight fines
- Monitor loading or unloading weights at remote locations
- Save time loading, weighing and adjusting the load
- Reduce time and mileage by minimizing trips to a commercial scale
- Reduce maintenance costs by not overloading the vehicle
- Prevent hauling freight in excess of contracted weight
- **INCREASE YOUR PROFIT BY MAXIMIZING EVERY LOAD**

**QUALITY, DEPENDABILITY, SIMPLICITY FROM
THE WORLD LEADER IN ON-BOARD SCALES**



PRESSURE SENSORS

**AIR AND HYDRAULIC
PRESSURE SENSORS
FOR ON-BOARD WEIGHING
APPLICATIONS**

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VSL AIR PRESSURE SENSOR

DESCRIPTION:

The VSL Air Pressure Sensor provides an accurate measure of payload by measuring air pressure in the vehicle suspension. The sensor can be used in conjunction with load cells to provide complete weight information for truck and trailer combinations where air and spring suspensions are mixed.

The VSL Air Pressure Sensor measures suspension pressure up to 120 psi. The sensor converts the suspension air pressure into a corresponding weight that can be displayed on any Vulcan VSL meter. The pressure sensor is fabricated from high-strength stainless steel and contains a 3/8-18 NPT internal pressure port. A standard 3/8-18 NPT brass fitting is recommended for the port.

Note: For the scale to function properly, a height control valve with a quick response time and narrow deadband is required (Vulcan part number 49-10116-001 or equivalent).

SPECIFICATION:

CAPACITY: Nominal working pressure: 120 psi

MATERIAL: Heat treated stainless steel
sensor enclosed in a rugged, corrosion
resistant housing

SIZE: 2" Dia. x 6.56" L

SAFE OVERLOAD: 360 psi

ACCURACY: System accuracy typically within
1% of GVW depending on leveling
valve type, suspension and
environmental factors

PORT SIZE: 3/8" internal pipe thread (3/8-18 NPT)

OUTPUT: Power and communications on 2-wire
VSL digital link

VSL HYDRAULIC PRESSURE SENSOR

DESCRIPTION:

The VSL Hydraulic Pressure Sensor provides an accurate measure of payload by measuring hydraulic pressure and converting it into a corresponding weight. The sensor is used in conjunction with Vulcan shear pin load cells to provide complete weight information for the vehicle. For applications such as dump trucks, roll-offs, and hook-lifts, the sensor converts the pressure of the front hoist cylinder(s) into a weight. Shear pins, as an integral part of the rear hinge assembly, measure the remainder of the payload.

The VSL Hydraulic Pressure Sensor measures hydraulic pressure up to 5000 psi. The sensor converts hydraulic pressure into a corresponding weight for display on any Vulcan VSL meter. The pressure sensor is fabricated from high-strength stainless steel and contains a 9/16-18 female (SAE: -6) pressure port. A 9/16-18 SAE straight thread (SAE: -6), o-ring fitting is required for the port.

SPECIFICATION:

CAPACITY: Normal working pressure: 3000 psi

MATERIAL: Heat treated stainless steel
sensor enclosed in a rugged, corrosion
resistant housing

SIZE: 2" Dia. x 6.56" L

SAFE OVERLOAD: 5800 psi

ACCURACY: System accuracy typically within
1% of GVW depending on application
and environmental factors

PORT SIZE: 9/16-18 SAE straight thread
o-ring fitting (SAE: -6)

OUTPUT: Power and communications on 2-wire
VSL digital link

REPRESENTED BY: