

DMRF 2 Pinch Force Gauge

Data Integrity. Improved Efficiency.

ASI DATAMYTE's Pinch Force Gauge is a reverse force sensor that increases efficiency and reduces measurement error.

Capability

The Pinch Force Gauge measures the pinch force of automatic powered car and truck window panes, as well as sun roofs and glass elevating roofs.



Measurement of reverse force of window panes.

The sensor captures the maximum power exerted by the automatic closing device before it switches into the reverse direction.

Measurement records can be shown directly on the display of the sensor and the data can be transmitted to a data collection instrument via a release button.

Depending on the model (DMRF-E or DMRF-U) the measurements are taken in accordance with the applicable standards for Europe (74/60/EWG) or the USA (49 CFR Ch.V §571.118).

Durability

The plastic cover of the steel finger prevents damage to lacquer coatings and breakable components.



Specifications (digital devices)

Part number: 5609.0200.2000

Weight : 2.1 lb (0.95 kg)
Range : ca 30 to 130N
Size : 8.7 x 4.3 in (220 x 110 mm)
Battery : 900 mAh Type Li-Ion
Range : ca 65.6 ft (20 m)

Built-in for 8 hours of operation
RF transmitter built-in for wireless connection to PC.

- 2.4 GHz (US)
- 868MHz (for EMEA)

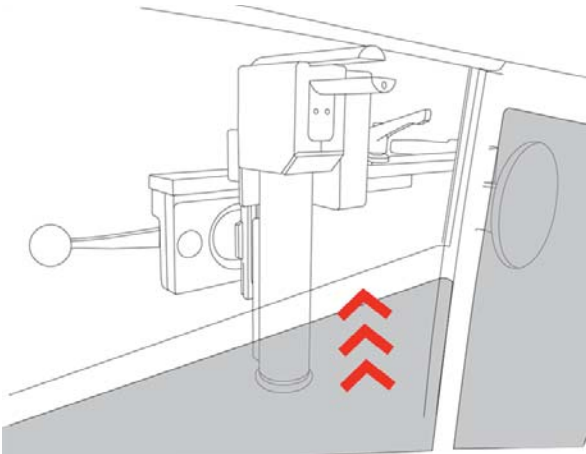
2,8" color LCD display
Display option of Bar or Graph (Curve)

Product components

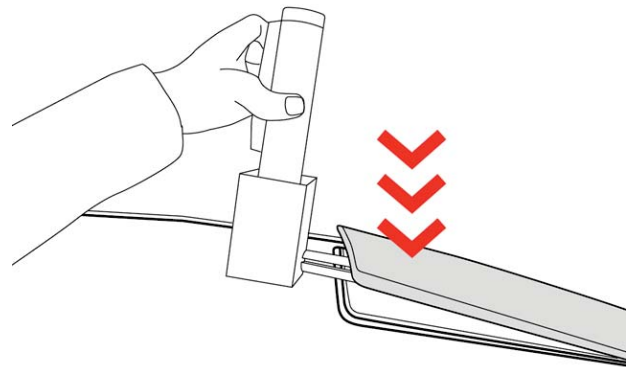
- Charger
- Carrying Case
- Optional USB Radio Receiver
- Optional Mounting kit for Dual Purpose
Fixture for both side window panes and sun roofs

Pinch Force Gauge Applications

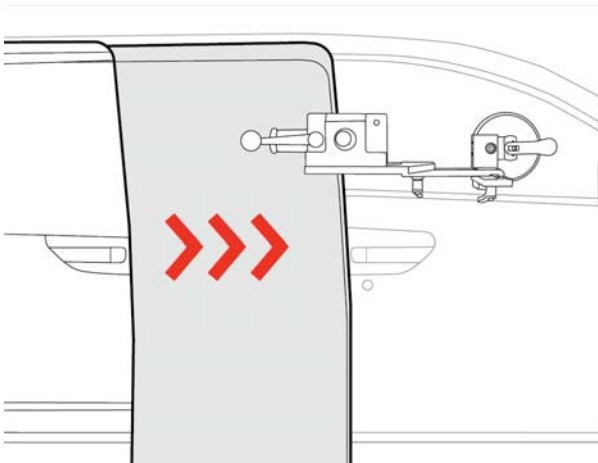
Power Windows with fixture



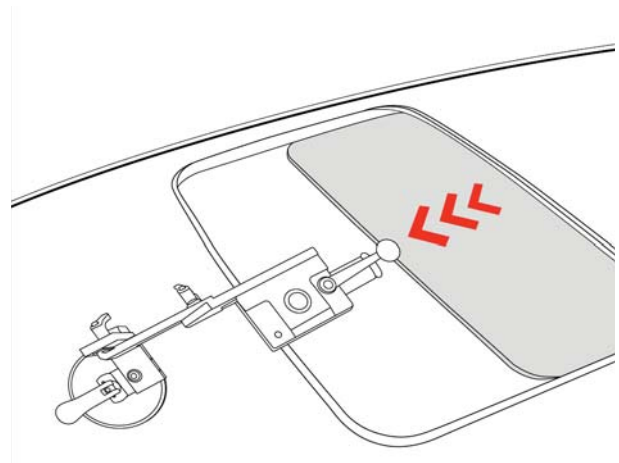
Glass Elevating Roof



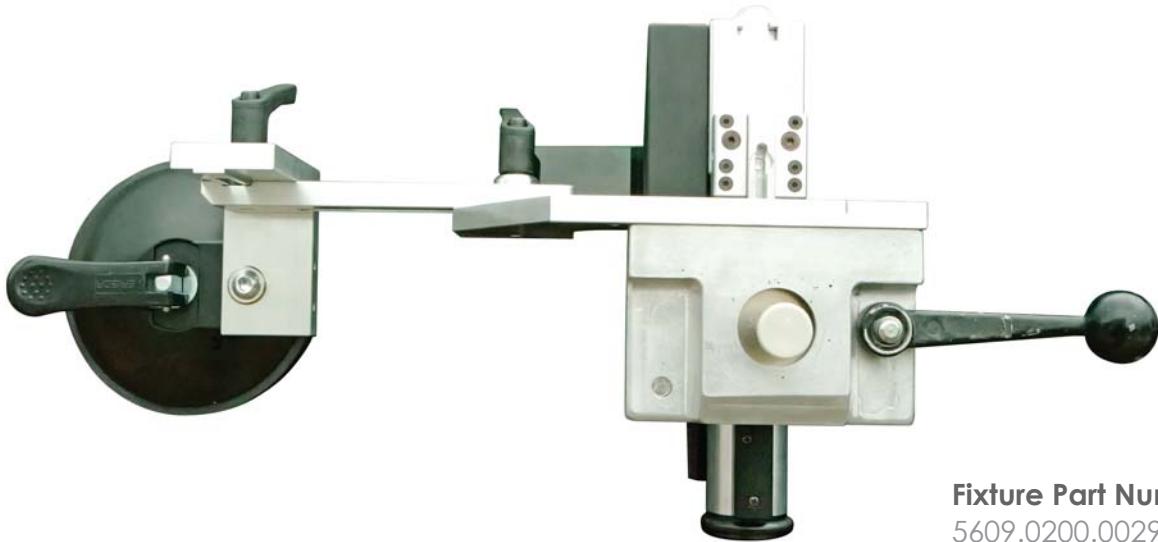
Auto Sliding Doors



Power Sun Roof with Fixture



Multi Purpose Pinch Force Gauge Fixture



Fixture Part Number:
5609.0200.0029

Capability

- Hands free, fixed measurement assures a 90 degree angle with every repetition and eliminates operator variability when performed by hand.
- Flexibility to adjust the fixture to affix to various points along the window. Easily repositions to move from front to back windows as well as to the other side of the vehicle.
- Exterior side attachment improves data integrity as it eliminates factoring in the weight of the device, as some competitors hang this from the window itself.
- One fixture can be used to measure both the side windows, as well as the sun roof.





Pinch Gauge Operating Instructions

1. Switch on the sensor by flipping the toggle switch.
2. When the sensor is activated, the version number is displayed briefly before the word "MASTER" appears. While in this mode, set the sensor back to zero by depressing the button located immediately under the display.



3. Open the window or the sun roof to start the measurement. Place the sensor on the upper window frame. Activate the automatic window closing mechanism.



Fixture Side Mounting Instructions

1. Lower the window to be measured and affix the suction cup to the adjacent window.
2. Pull the lever located on top of the suction cup back and down to apply suction and secure the unit in place.
3. Align the grooves on the head of the sensor with those found on the fixture opening. Slide the sensor into place with the fingers protruding through the window opening.
4. Adjust the ball-clamp that the sensor is at a 90° angle to the window path.
5. Lightly tighten the safety screw.
6. The sensor is ready for use.
7. For changing to rear window or going to left side, flip the fixture and easily turn the sensor upside down by using the ball-clamp.

4. As the window comes in contact with the lower finger of the sensor, the device will be pressed together to the maximum power of the window closer before the window reverses and opens automatically.
5. A reading of the maximum closing force attained is displayed, saved and can be sent to any attached data collection or analysis device by pressing the "Enter/Send" button.
6. To take a new measurement, position the sensor to the desired open space and activate the window closing mechanism again. The sensor automatically resets and records the new measurement. As before, the new reading will be shown on the display.



Fixture Roof Mounting Instructions

1. Open the sliding/sun roof and affix the suction cup by inserting the stop into the window opening and resting it flush against the inner rim.
2. Pull the lever located on top of the suction cup back and down to apply suction and secure the unit in place.
3. Align the grooves located on the head of the sensor with those found on the aperture of the holder and slide the sensor into place with the finger protruding through the window opening.
4. Lightly tighten the safety screw.
5. The sensor is ready for use.