

Pocket Pit Gauge

The Reversible Blade of the Pocket Pit Gauge (N88-4) is used to measure isolated pitting with its two Contact Surfaces, a 1.5" (38mm) long Knife Edge Blade, as well as a Spot Blade with two Reference Points that are 0.375" (9.5mm) apart. The Spot Blade is used on Compound Curvatures such as the Knuckle of a Vessel Head, Pumps (Body/Impeller), Valves (Body/Ball), Propellers, Turbine Blades, Gas Cylinders, etc.. The operator performs a rough *Height Zero*, on a non-corroded surface with a similar shape, followed by a *Scale Zero*. The Pocket Pit Gauge is placed on a curved surface, at the same orientation as zeroed, to measure the Pit Depth.

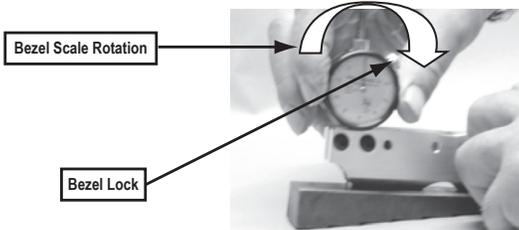


Zeroing Dial Indicator

The vertical position of the Contact Point, needs to be Zeroed with respect to the Knife Edge of the Blade. Zeroing can be accomplished in two ways; by adjusting the Height of the Dial Indicator in the Blade; or by Rotating the outer Bezel Scale while pressing on the Plunger onto a flat surface.

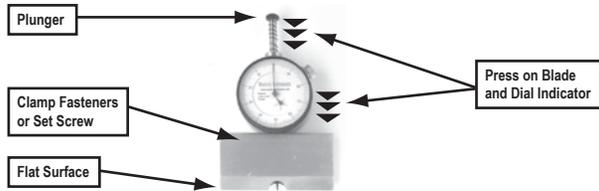
Scale Zeroing

To quickly check the Zero Point of the Dial indicator, place the Blade on a relatively smooth surface. Gently press the Plunger, until the contact point touches the surface. While the contact point is on the surface, loosen the Bezel Lock, and rotate the Bezel Scale until it reads '0' with respect to the pointer. Be mindful that the blade is 'normal' to the surface.



Height Zeroing

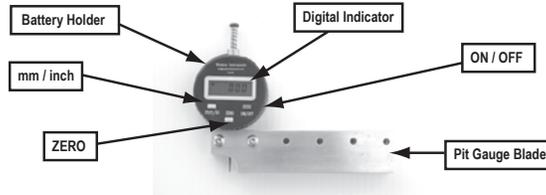
Loosen the Fastener(s) holding the Dial Indicator in place. Hold the Blade firmly on a Flat Surface, and gently press the body of the Dial Indicator down until the contact point touches the flat surface. Carefully re-tighten the Clamp Fastener(s) or the Set Screw. Any fine zeroing can be done by rotating the Bezel Scale on the Dial Indicator.



Height Zeroing should be done whenever the unit is put into to use. Be sure that the Contact Point does not lift the blade off the surface.

Zeroing a Digital Indicator

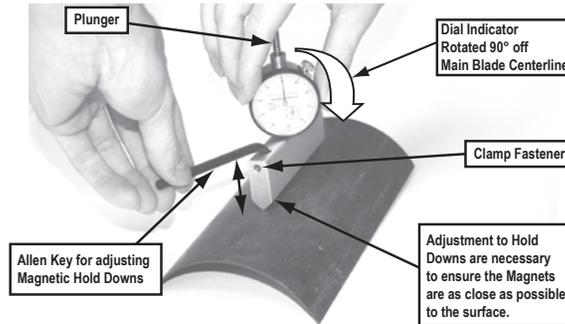
Digital Indicators can be Height Zeroed or Positioned in the same way as a Mechanical Dial Indicator. To Zero the Digital Indicator simply press the Zero Button when the Contact Point is on a reference surface. If the Digital Indicator is Height Zeroed, press Zero when the Plunger is fully retracted.



To select Metric or Imperial Measurement, simply press the mm/in Button. When not in use, press the On/Off Button to turn the Indicator off. Digital Indicators do not shut off automatically.

Indicator Positioning

The position (or rotation) of the Dial indicator can be changed by simply loosening the Clamp Fasteners or Set Screw, and rotating the Dial Indicator around the Blade. After the Dial Indicator is rotated, the unit should also be Dial Zeroed.



Magnetic Hold Downs

Magnetic Hold Downs need to be adjusted to fit the surface being tested. If the surface is flat or convex, the Hold Downs can be adjusted, with the Allen Key, to be flush with the knife edge of the blade. However, if the surface is curved (concave), like the inside of a vessel, the Hold Downs need to be adjusted so they don't interfere with the contact of the knife edge on the work piece.

Scanning

Western's Dial Indicators have the special Push to Read feature, which allows the operator to Scan through a Pit to obtain an idea of the shape. By placing the index finger on the Plunger, the operator can put a slight amount of pressure onto the Contact Point. The operator then pulls the Pit Gauge Blade through the Pit, paying careful attention that the contact point does not catch on the irregular surface. This allows the operator to watch the depth indications, so he will see both his depth and length displacement.

Warranty

Western Instruments warrants its products, against defects in materials and workmanship for a period of 1 year from receipt by the end user. If Western Instruments receives notice of such defects during the warranty period, Western Instruments will either, at it's option, repair, replace, or condemn products that prove to be defective. Consumable items, such as Contact Points, Batteries, and the like are warranted for 30 days, from receipt by the end user.

Any warranty is void if the unit has been modified in any way, or if it has been repaired by an unauthorized agency. The end user agrees that any equipment's disposition, when returned for warranty work, is at the full discretion of Western Instruments as to whether a claim is under warranty, or due to misuse. Western Instruments warranty shall overlook normal wear, however does not include operation outside the environmental specification of the product. All warranty work is FOB Western Instruments, and any returned units shall include a written description, by the end user, of the fault.

Western Instruments makes no other warranty, either expressed or implied, with respect to this product. Western Instruments specifically disclaims any liability arising from the use of this equipment. For the correct use of the product, refer to the Operating Instructions, furthermore we recommend instructional training to NACE, or other regulatory authority qualifications. Western Instruments highly recommends the end user exercise all possible safety precautions, including use of protective equipment, while operating this or other industrial equipment.

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