Series MFD Analog Force Gauge



Operation Manual

Do not operate or store instrument in the following locations:

Explosive areas, near water, oil, dust or chemicals; areas where the temperatures can exceed 104°F (40° C)

Take precaution to not drop the force gauge. Damage to the sensor may occur.

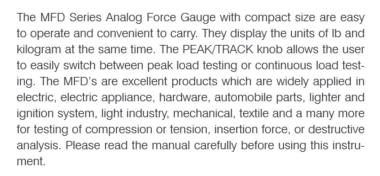


Do not modify, disassemble or attempt to repair the unit. Send to the factory for proper repair.

If upon delivery damage to the unit is detected, do not operate the unit. Notify the shipping carrier immediately to obtain damage claim instructions.

Only measure forces that are in line with the measuring shaft. Do not attempt to take any measurements (tension or compression) at any angle. Failure to keep measurements in line will damage the instrument.

Do not exceed capacity of unit. Accuracy may be affected if unit is exposed to high humidity, dust or extreme shock.



When vertically placed to use, especially when installing attachment, do not apply load as needle will move from the dead weight result of the attachment. Re-zero dial so zero [O] is aligned with needle. This tares the attachment load for proper test results.

Note: If often exceeding max allowed capacity the internal operation spring will gradually wear and lead to incorrect test performance. Please do not overload to maintain life of the machine.



SPECIFICATIONS

Accuracy: ±1% F.S.

Display Analog: 2" in diameter (50 mm); rotatable 360° for taring

purposes

Live/Peak Mode: Selectable **Needle Update:** Immediate

Threaded Insert: 4 on back for mounting inserts

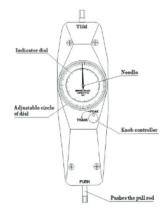
Overload Capacity: 120% of range

Rod Travel: 10 mm (0.39 in) Work Environment: No vibration Product Weight: 1.25 lb (0.57 kg) Package Weight: 2.2 lb (1 kg)

Warranty: 1 year

Included Accessories: Carrying case and attachments (flat head, hook, chisel, notched head, cone head, extension rod),

mounting screws.



SEALS USA, Inc.

Model	Range Capacity	Resolution	Min. Load
MFD-02	4.5 lb (2 kg)	0.02 lb (0.02 kg)	0.45 lb (0.2 kg)
MFD-03	11 lb (5 kg)	0.05 lb (0.05 kg)	1 lb (0.5 kg)
MFD-04	22 lb (10 kg)	0.1 lb (0.1 kg)	2.2 lb (1.1 kg)
MFD-05	45 lb (20 kg)	0.2 lb (0.2 kg)	4.5 lb (2.2 kg)
MFD-06	110 lb (50 kg)	0.5 lb (0.5 kg)	11 lb (5.5 kg)

OPERATION

Preparation Before Test

Choose appropriate attachment and install it on the gauge before test

- (1) Pull Test: Choose pull attachment and install it on the connector marked [PULL].
- (2) Push Test: Choose push attachment and install it on the connector marked [PUSH].
- (3) Use of Extension Rod: When it isn't possible to reach item under test, add extension rod with attachment.

Note: When operating, tested object and gauge must be on the same straight line. If not properly aligned, correct load values are not possible and damage to gauge may occur.

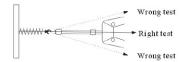
(4) Confirm operation method by the location of the knob controller: Changing from [PEAK] or [TRACK]: Lightly press knob inward, then turn it to align dot on knob (•) with either [TRACK] or [PEAK] text on the gauge.

Note: After testing, place the dot (•) in the [PEAK] location. If knob is left in the place of [TRACK] for an extended period, the life of the inner springs will shorten.

(5) Adjustments of indicator dial: Confirm needle aims at zero [O] on dial. If not, turn adjustable outer circle of dial until needle aligns with zero [O] on gauge face.

Testing

(1) Please tightly hold gauge by hands or appropriate stands to perform test. When testing, please place tested object and gauge on the same straight line. If they are not aligned, test will not be accurate.



- (2) Change of load mode testing
- (a) When knob controller is in [TRACK] mode, the needle moves in accordance with changes in force.
- (b) When knob controller is in [PEAK] mode, the needle records Max. value of load and remains at that maximum force until pressing inward on the controller knob. Once knob is pushed, the needle returns to zero position as long as the tested force is removed.

Tel: (630)924-7138

Attachments

In order for the gauge to produce a stable value, please utilize included attachments. If your company wants to utilize its own attachments, please refer to size of attachment connector.



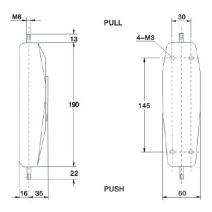
Maintenance

(1)Do not apply loads exceeding the max test range of gauge to avoid damaging instrument...

(2)Do not put or use gauge in low or high temperature and humidity locations. Please store and use it in the specified environment.

(3) If there is something wrong with gauge, please contact the original sales department you purchased from.

DIMENSIONS



Email: support@seals-usa.com