Perform Muscle Testing and Range Of Motion Evaluations With One Device

The wireless microFET3 combination dynamometer and inclinometer is a portable, affordable device, that provides accurate and objective muscle testing and range of motion measurements. Now you can perform two evaluations with one gauge when diagnosing and treating muscular disorders. The gauge allows the clinician one free hand to stabilize and assist the patient when performing range of motion tests.
### Features
- Perform two evaluation functions using a single device
- Portable, cost effective option for users for muscle testing and range of motion
- Easy to read LCD displays show peak force and elapsed time for muscle testing, and degrees for range of motion testing
- Use as standalone device, or wireless with clinical or data collection software

### Specifications
- Muscle test measurement range: 0-150 lbs force. Range of motion measurement: 0-180 degrees
- Muscle test selectable units of measure: pounds (lbs.), Newtons (N), or kilogram-force (kgf)
- Two threshold settings for muscle testing: Low Threshold – 0.8 lb. to 150 lbs. in 0.1 lb. increments and High Threshold – 3.0 lbs. to 150 lbs. in 0.1 lb. increments
- Accuracy within 1% of reading muscle testing, within 1° range of motion
- Stores up to 30 tests
- Uses rechargeable lithium ion battery
- Self-activating “sleep” mode after 3 minutes of non-use to extend battery life

### Your Purchase Includes
- microFET3 muscle testing device
- 3 Test attachments - flat transducer pad, curved transducer pad, digit transducer pad
- User manual
- Calibration certificate
- Wall pack power supply
- Carrying case
- 1 year standard warranty included, with extended warranties available
- Optional clinical or FET data collection software available
- Available muscle and spinal range of motion test positions wall charts and test record forms to print can be downloaded from the website
- Product Warranty: Warranty registration completed online on website

*Evaluation tools to measure, objectify and document human performance*

1.800.678.7888 | WWW.HOGGANSCIENTIFIC.COM | 1987 SOUTH 3653 WEST, SALTABLE CITY, UTAH 84104
Cervical Testing Positions

Cervical Flexion
(Occiputal Starting Position)
Place unit on top of head. (Click)
Cervical Flexion
(Occiputal Ending Position)
Ask patient to tip their head and neck forward as far as possible without experiencing pain. (Click)
Click a third time to get reading.

Cervical Flexion
(T-1 Starting Position)
With the patient still in the same position, place unit on T-1. (Click)
Cervical Flexion
(T-1 Ending Position)
Ask the patient to return to the neutral position. (Click)
Click a third time to get reading.

Cervical Extension
(Occiputal Starting Position)
Place unit on top of head. (Click)
Cervical Extension
(Occiputal Ending Position)
Ask patient to tip their head and neck backwards as far as possible without experiencing pain. (Click)
Click a third time to get reading.

Cervical Extension
(T-1 Starting Position)
With the patient still in the same position, place unit on T-1. (Click)
Cervical Extension
(T-1 Ending Position)
Ask the patient to return to the neutral position. (Click)
Click a third time to get reading.

Cervical Lateral Flexion-Left
(Occiputal Starting Position)
Place the unit on top of head. (Click)
Cervical Lateral Flexion-Left
(Occiputal Ending Position)
Ask the patient to fully laterally flex their head to the left as far as possible without experiencing pain. (Click)
Click a third time to get reading.

Cervical Lateral Flexion-Left
(T-1 Starting Position)
With the patient in the same position place the unit on T-1 with horseshoe facing up against T-1. (Click)
Cervical Lateral Flexion-Left
(T-1 Ending Position)
Ask the patient to return to the neutral position. (Click)
Click a third time to get reading.

Cervical Lateral Flexion-Right
(Occiputal Starting Position)
Place the unit on top of head. (Click)
Cervical Lateral Flexion-Right
(Occiputal Ending Position)
Ask the patient to fully laterally flex their head to the right as far as possible without experiencing pain. (Click)
Click a third time to get reading.

Cervical Lateral Flexion-Right
(T-1 Starting Position)
With the patient in the same position place the unit on T-1 with horseshoe facing up against T-1. (Click)
Cervical Lateral Flexion-Right
(T-1 Ending Position)
Ask the patient to return to the neutral position. (Click)
Click a third time to get reading.

Cervical Rotation-Left
(Starting Position)
With the patient lying face up, place unit on forehead. (Click)
Cervical Rotation-Left
(Ending Position)
Ask the patient to fully rotate their head to the left as far as possible without experiencing pain. (Click)
Click a third time to get reading.

Cervical Rotation-Right
(Starting Position)
With the patient lying face up, place unit on forehead. (Click)
Cervical Rotation-Right
(Ending Position)
Ask the patient to fully rotate their head to the right as far as possible without experiencing pain. (Click)
Click a third time to get reading.
Lumbar Testing Positions

**Lumbar Flexion**
(T-12 Starting Position) Place the unit on T-12. (Click)
(T-12 Ending Position) Ask the patient to fully flex (bend forward at the waist) as far as possible without experiencing pain. (Click)
(S-1 Starting Position) With the patient still in the same position, place unit on S-1. (Click)
(S-1 Ending Position) Click a third time to get reading.

**Lumbar Extension**
(T-12 Starting Position) Place the unit on T-12. (Click)
(T-12 Ending Position) Ask the patient to fully extend (bend backwards at the waist) as far as possible without experiencing pain. (Click)
(S-1 Starting Position) With the patient still in the same position, place unit on S-1. (Click)
(S-1 Ending Position) Click a third time to get reading.

**Lumbar Lateral Flexion-Left**
(T-12 Starting Position) Place the unit on T-12 flat against the patient with horseshoe facing upward. (Click)
(T-12 Ending Position) Ask the patient to bend at the waist to the left as far as possible without experiencing pain. (Click)
(S-1 Starting Position) With the patient still in the same position, place unit on S-1 flat against the patient. (Click)
(S-1 Ending Position) Click a third time to get reading.

**Lumbar Lateral Flexion-Right**
(T-12 Starting Position) Place the unit on T-12 flat against the patient with horseshoe facing upward. (Click)
(T-12 Ending Position) Ask the patient to bend at the waist to the right as far as possible without experiencing pain. (Click)
(S-1 Starting Position) With the patient still in the same position, place unit on S-1 flat against the patient. (Click)
(S-1 Ending Position) Click a third time to get reading.
Thoracic Testing Positions

Thoracic Flexion (T-1 Starting Position)
Place the unit on T-1. (Click)

Thoracic Flexion (T-1 Ending Position)
Ask the patient to bend forward at the waist as far as possible without experiencing pain. (Click) Click a third time to get reading.

Thoracic Flexion (T-12 Starting Position)
With the patient still in the same position, place unit on T-12. (Click)

Thoracic Flexion (T-12 Ending Position)
Ask the patient to return to the neutral position. (Click) Click a third time to get reading.

Thoracic Rotation-Left (T-1 Starting Position)
Ask patient to bend forward. Place the unit on T-1 (ear-to-ear). (Click)

Thoracic Rotation-Left (T-1 Ending Position)
Ask the patient to rotate the trunk as far as possible to the left without experiencing pain. (Click) Click a third time to get reading.

Thoracic Rotation-Left (T-12 Starting Position)
With the patient still in the same position, place unit on T-12 (ear-to-ear). (Click)

Thoracic Rotation-Left (T-12 Ending Position)
Ask the patient to return to the neutral position. (Click) Click a third time to get reading.

Thoracic Rotation-Right (T-1 Starting Position)
Ask patient to bend forward. Place the unit on T-1 (ear-to-ear). (Click)

Thoracic Rotation-Right (T-1 Ending Position)
Ask the patient to rotate the trunk as far as possible to the right without experiencing pain. (Click) Click a third time to get reading.

Thoracic Rotation-Right (T-12 Starting Position)
With the patient still in the same position, place unit on T-12 (ear-to-ear). (Click)

Thoracic Rotation-Right (T-12 Ending Position)
Ask the patient to return to the neutral position. (Click) Click a third time to get reading.
MUSCLE TESTING POSITIONS

Diagrams indicate muscle tests with transducer placement, proper positioning and stabilization for test.
OCCIPITAL STARTING POSITION
Place unit on top of head. (Click)

OCCIPITAL ENDING POSITION
Have patient go through motion. (Click)
Click a third time to get result.

T-1 STARTING POSITION
With patient in the same position
place unit on T-1. (Click)

T-1 ENDING POSITION
Have patient return to neutral
position. (Click)
Click a third time to get result.

CERVICAL ROM TEST
☐ Flexion  ☐ Extension
(check appropriate test)

Repeat 3 to 6 times to get a valid set of 3 consecutive trials
within 5 degrees or 10%, whichever is greater of the mean
trial of the 3 you choose.

<table>
<thead>
<tr>
<th>Test 1</th>
<th>Test 2</th>
<th>Test 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occipital Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T-1 Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROM Results</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test 4</th>
<th>Test 5</th>
<th>Test 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occipital Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T-1 Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROM Results</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**T-12 STARTING POSITION**
Place unit on T-12. *(Click)*

**T-12 ENDING POSITION**
Have patient go through motion. *(Click)*
Click a third time to get result.

**S-1 STARTING POSITION**
With patient in same position place unit on S-1. *(Click)*

**S-1 ENDING POSITION**
Have patient return to neutral position. *(Click)*
Click a third time to get result.

---

**LUMBAR ROM TEST**
- Flexion □
- Extension □

*(check appropriate test)*

Repeat 3 to 6 times to get a valid set of 3 consecutive trials within 5 degrees or 10%, whichever is greater of the mean trial of the 3 you choose.

<table>
<thead>
<tr>
<th>Test 1</th>
<th>Test 2</th>
<th>Test 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-12 Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-1 Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROM Results</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test 4</th>
<th>Test 5</th>
<th>Test 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-12 Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-1 Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROM Results</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Hoggan Scientific
800-678-7888 toll-free / 801-572-6500 USA
T-1 Starting Position
Place unit on T-1. (Click)

T-1 Ending Position
Have patient go through motion. (Click)
Click a third time to get result.

T-12 Starting Position
With patient in same position.
place unit on T12. (Click)

T-12 Ending Position
Have patient return to neutral position. (Click)
Click a third time to get result.

Repeat 3 to 6 times to get a valid set of 3 consecutive trials within 5 degrees or 10%, whichever is greater of the mean trial of the 3 you choose.

Test 1  Test 2  Test 3
T1 Value

Test 4  Test 5  Test 6
T12 Value

T1 Value

T12 Value

ROM Results

ROM Results

Hoggan Scientific
800-678-7888 toll-free / 801-572-6500 USA
UPPER BODY

LEFT

TEST 1  TEST 2  TEST 3

NECK
STERNOCLEIDOMASTOID
EXTENSION GROUP

SCAPULA
SERRATUS ANTERIOR
TRAPEZIUS (SUP)
TRAPEZIUS (INF)
TRAPEZIUS (MIDDLE)
RHOMBOIDS

SHOULDER
DELTOID (ANT)
LATASSIMUS DORSI
TERES MAJOR
DELTOID (MIDDLE)
DELTOID (POST.)
PECTORALIS MAJOR
LATERAL ROTATOR GROUP
MEDIAL ROTATOR GROUP

ELBOW
BICEPS BRACHII
BRACHIALIS
BRACHIORADIALIS
TRICEPS BRACHII

RIGHT

TEST 1  TEST 2  TEST 3