

QuantuMike

安全に関する注意

商品のご使用に当たっては、記載の機能・性能・使用上の注意に従ってご使用ください。それ以外でご使用になりますと安全を損なうおそれがあります。

海外移転に関する注意

本製品は、「外国為替及び外国貿易法」の規制対象商品です。本製品やその技術を海外移転する場合は、事前に弊社にご相談ください。

警告

- 本機に使用している電池や液晶パネルは劇毒性物質を含んでいます。万一その液のこぼれが肌や目や衣服などに付着した場合はすぐに洗ってください。また、電池や液晶パネルは、火気や高温にさらさないでください。破裂の恐れがあります。
- 本機は、使用後は防湿処理を行ってください。

重要

- 分解、改造をしないでください。修理の依頼をください。
- 急な温度変化のある環境での使用、保管をしないでください。また、ご使用の際に室温に十分なままでください。
- 湿度やこのほかの場所での保管は避けてください。
- クラウドとの連携が可能な場合で電圧が不安定な場合は、電源をしっかりと閉めてください。出力付きタイプでは、出力ケーブル付け時および、カバー取り付け時は取り付けねじをしっかりと締めて、予備のいないようしてください。また、使用後は防湿処理を行ってください。
- 落下などの急激なショックを与えない。過激な力を加えないでください。
- 測定前には必ず零点合わせを行ってください。
- 使用前に必ずご確認ください。説明書をお読みください。
- お手入れの際は、稀薄した中性洗剤を含ませた柔らかい布をご使用下さい。アルコール(シンナー)等を使用する不要な薬液や溶剤の使用は、液晶パネルが汚れる場合があります。アルコールを含ませた柔らかい布で拭き取ってください。
- マイクロチップが壊れる場合があります。マイクロチップを無理に曲げたり、衝撃を加えたりしないでください。

1. 各部の名称

1. センソラ
2. クラウド
3. スピーダ部ラチェット (定尺装置内蔵)
4. シンパ部チャット (定尺装置内蔵)
5. 動力マータ
6. カバー (出力付きタイプのみ)
7. データ出力ケーブル (出力付きタイプのみ)
8. 電池蓋 (裏面)
9. HOLD スイッチ
10. ZERO/ABS スイッチ
11. ORIGIN スイッチ (2. 機能付の場合)
12. 表示部

2. 電池のセット

- 重要**
- 電池をセットした場合は、最初に ORIGIN スイッチを押してオージン値が確定されるまでの間 (左ラスタ [2] 1)、チャットを固まさないでください。電圧部の初期設定に失敗し、正常なカウントしない場合があります。万一、チャットを動かしてしまっった場合には、電池をセットし直してください。
 - 電池をセットした後は、ORIGIN (基点) の位置が消失します。ORIGIN (基点) を再設定してください (右ラスタ [2] 1) のチャットを参照してください。
 - 電池の残量が少なくなると、電池の残量を表示します。残量を参照してください。
 - (お買い上げ時付属している) 電池は、機能性能を確保する為のものです。所定の寿命が経過した場合は必ず取り替えてください。
 - 電池の残量が少なくなると、電池の残量を表示します。残量を参照してください。
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3. スイッチの機能と表示

1. スイッチの機能
 - (1) ZERO/ABS スイッチ: 短押しで表示をゼロにリセットし、長押しで基点 (アン) の位置をリセットし直してください。
 - (2) HOLD スイッチ: 表示をホールドしてください。
 - 2. 表示
 - INC: 任意でゼロセットされたことを示します。
 - -: 表示がホールドされています。解除は再度 HOLD スイッチを押してください。ファンクションメニューが有効になっています。

3.1 ファンクションロック機能

- ファンクションロックが設定されている場合には、LCD 内に「**L**」が点灯し、[HOLD] 操作のみが有効になります。
- 無効スイッチ: ORIGIN ZERO/ABS in/m (機能付の場合)
- 設定時の操作

- (1) [HOLD] を押しなが [ZERO/ABS] を同時に 2 秒以上長押しします。
- この時、[HOLD] が点灯してきます。[LCD] 内に「**L**」が点灯します。
- (2) [HOLD] を押しなが [ZERO/ABS] を同時に 2 秒以上長押しします。
- ファンクションロックを解除する場合は同様の操作を行ってください。

4. エラー表示と対処方法

- (1) **Er-1**: 電池の電圧が低下しています。すぐに電池を交換してください。
- (2) **Er-2**: オペレーティングモード/ノイズによる計算エラーが発生した場合のエラーです。一度電池を取り外し、再度セットし直してください。
- (3) **Er-3**: 電圧部の初期設定に失敗した場合やセンサ信号の異常などによる計算エラーが発生した場合のエラーです。一度電池を取り外し、再度セットし直してください。

5. オリジン値の設定

- 重要**
- 電池をセットした場合は、最初に ORIGIN スイッチを押してオージン値が確定されるまでの間 (左ラスタ [2] 1)、チャットを固まさないでください。電圧部の初期設定に失敗し、正常なカウントしない場合があります。万一、チャットを動かしてしまっった場合には、電池をセットし直してください。
 - 電池の残量が少なくなると、電池の残量を表示します。残量を参照してください。
 - (お買い上げ時付属している) 電池は、機能性能を確保する為のものです。所定の寿命が経過した場合は必ず取り替えてください。
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5.1 A

- | | | | |
|-----------|-----------|--------|------------|
| 0-25 mm | 0.000 mm | 0-1 in | 0.00000 in |
| 25-50 mm | 25.000 mm | 1-2 in | 1.00000 in |
| 50-75 mm | 50.000 mm | 2-3 in | 2.00000 in |
| 75-100 mm | 75.000 mm | 3-4 in | 3.00000 in |

5.2

- (1) 設定の手順は以下の通りです (測定範囲が 25 ~ 50mm の操作例)。
- (2) ORIGIN スイッチを押します。
- (3) ORIGIN スイッチを押しながら「25.000」で測定範囲を設定し、ORIGIN スイッチを押します。
- (4) 「**L**」が点灯している間は表示は変わりません。再度 ORIGIN スイッチを押します。
- (5) 「**L**」が消滅します。これでオリジン値が設定されました。測定範囲が 25 ~ 50mm のオリジン値設定値は、表示を参照してください。

5.3

- 注意**
- 測定中に「ORIGIN」表示が押してしまっった場合は、ZERO/ABS スイッチを押すことにより解除が可能です。それ以外の場合は、電源をオフにしてください。
 - 標準操作の基準値以外でのオリジン値を設定する時は、2 秒の押し続けを行います。
 - 設定した値は、設定メニューで再表示、表示部を HOLD スイッチで押しホールドします。

5.4

- (1) 接続ケーブルを押しします。
- (2) ORIGIN スイッチを押します。「**L**」が点灯します。
- (3) マイクロメータに基準となるものをセットし、定尺装置で所定の測定力をかけます。
- (4) 再度 ORIGIN スイッチを押します。「**L**」が消滅し、設定完了です。

5.5

- 注意**
- 設定したオリジン値に戻したい場合は、電池をセットし直して再設定してください。

6. 仕様

測定範囲 (mm)	: ±1.7 (2)
測定範囲 (in)	: ±1.7 (2)
最小読取値	: 0.001mm
電子化読数	: ±1 カウント
表示部	: LCD 表示 (8 桁およびマイナス付)
電源	: 乾電池 (SR44 No.938882) 個
電池寿命	: 約 400 時間 (使用温度: -10°C ~ 60°C (保存温度))
標準付属品	: スパン (No.301336)、基準棒 (測定範囲が 25mm 以上は標準付属)
保護等級	: IP65 (防塵等級は IEC60529 を参照ください)
対象物入 (等級)	: 突刺に異物は挿入しない。
対象物入 (等級)	: 1 から 9 の範囲から水の連続接触を受けた異物に有害な影響が及ぼされることはありません。

7. 出力機能 (出力付きタイプのみ)

1. 接続ケーブルに付属のクラウドタイプでカバー取り付け時 (M1.7x0.35x2.5No.09A4A78) がはまります。
2. カバーは必ず押します。
3. DATA 表示は、出力スイッチが押されている間は Low に表示します。
4. 接続ケーブルの両端を指さし、接続ケーブルとマイクロメータ本体のコネクタにすき間がないように入力して、接続ケーブルを取り付けはってください。
5. パナチは取外さないでください。

7.1

- 重要**
- 接続ケーブルは、以下の手順でセットしてください (図 1) を参照)。お買い付けの際は、必ず接続ケーブルに付属のクラウドタイプ (No.09A4A78) を接続してください。5-sec は、必ずケーブルの両端を指さし、接続ケーブルとマイクロメータ本体のコネクタにすき間がないように入力して、接続ケーブルを取り付けはってください。
 - パナチは取外さないでください。

7.2

- データフォーマット**
3. オメガフォーマット
- DATA 表示は、出力スイッチが押されている間は Low に表示します。
 - DATA 表示は、出力スイッチが押されている間は Low に表示します。
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7.5

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- 本機は、使用後は防湿処理を行ってください。

重要

- 分解、改造をしないでください。修理の依頼をください。
- 急な温度変化のある環境での使用、保管をしないでください。また、ご使用の際に室温に十分なままでください。
- 湿度やこのほかの場所での保管は避けてください。
- クラウドとの連携が可能な場合で電圧が不安定な場合は、電源をしっかりと閉めてください。出力付きタイプでは、出力ケーブル付け時および、カバー取り付け時は取り付けねじをしっかりと締めて、予備のいないようしてください。また、使用後は防湿処理を行ってください。
- 落下などの急激なショックを与えない。過激な力を加えないでください。
- 測定前には必ず零点合わせを行ってください。
- 使用前に必ずご確認ください。説明書をお読みください。
- お手入れの際は、稀薄した中性洗剤を含ませた柔らかい布をご使用下さい。アルコール(シンナー)等を使用する不要な薬液や溶剤の使用は、液晶パネルが汚れる場合があります。アルコールを含ませた柔らかい布で拭き取ってください。
- マイクロチップが壊れる場合があります。マイクロチップを無理に曲げたり、衝撃を加えたりしないでください。

1. 各部の名称

1. センソラ
2. クラウド
3. スピーダ部ラチェット (定尺装置内蔵)
4. シンパ部チャット (定尺装置内蔵)
5. 動力マータ
6. カバー (出力付きタイプのみ)
7. データ出力ケーブル (出力付きタイプのみ)
8. 電池蓋 (裏面)
9. HOLD スイッチ
10. ZERO/ABS スイッチ
11. ORIGIN スイッチ (2. 機能付の場合)
12. 表示部

2. 電池のセット

- 重要**
- 電池をセットした場合は、最初に ORIGIN スイッチを押してオージン値が確定されるまでの間 (左ラスタ [2] 1)、チャットを固まさないでください。電圧部の初期設定に失敗し、正常なカウントしない場合があります。万一、チャットを動かしてしまっった場合には、電池をセットし直してください。
 - 電池をセットした後は、ORIGIN (基点) の位置が消失します。ORIGIN (基点) を再設定してください (右ラスタ [2] 1) のチャットを参照してください。
 - 電池の残量が少なくなると、電池の残量を表示します。残量を参照してください。
 - (お買い上げ時付属している) 電池は、機能性能を確保する為のものです。所定の寿命が経過した場合は必ず取り替えてください。
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3. スイッチの機能と表示

1. スイッチの機能
 - (1) ZERO/ABS スイッチ: 短押しで表示をゼロにリセットし、長押しで基点 (アン) の位置をリセットし直してください。
 - (2) HOLD スイッチ: 表示をホールドしてください。
 - 2. 表示
 - INC: 任意でゼロセットされたことを示します。
 - -: 表示がホールドされています。解除は再度 HOLD スイッチを押してください。ファンクションメニューが有効になっています。

3.1 ファンクションロック機能

- ファンクションロックが設定されている場合には、LCD 内に「**L**」が点灯し、[HOLD] 操作のみが有効になります。
- 無効スイッチ: ORIGIN ZERO/ABS in/m (機能付の場合)
- 設定時の操作

- (1) [HOLD] を押しなが [ZERO/ABS] を同時に 2 秒以上長押しします。
- この時、[HOLD] が点灯してきます。[LCD] 内に「**L**」が点灯します。
- (2) [HOLD] を押しなが [ZERO/ABS] を同時に 2 秒以上長押しします。
- ファンクションロックを解除する場合は同様の操作を行ってください。

4. エラー表示と対処方法

- (1) **Er-1**: 電池の電圧が低下しています。すぐに電池を交換してください。
- (2) **Er-2**: オペレーティングモード/ノイズによる計算エラーが発生した場合のエラーです。一度電池を取り外し、再度セットし直してください。
- (3) **Er-3**: 電圧部の初期設定に失敗した場合やセンサ信号の異常などによる計算エラーが発生した場合のエラーです。一度電池を取り外し、再度セットし直してください。

5. オリジン値の設定

- 重要**
- 電池をセットした場合は、最初に ORIGIN スイッチを押してオージン値が確定されるまでの間 (左ラスタ [2] 1)、チャットを固まさないでください。電圧部の初期設定に失敗し、正常なカウントしない場合があります。万一、チャットを動かしてしまっった場合には、電池をセットし直してください。
 - 電池の残量が少なくなると、電池の残量を表示します。残量を参照してください。
 - (お買い上げ時付属している) 電池は、機能性能を確保する為のものです。所定の寿命が経過した場合は必ず取り替えてください。
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5.1 A

- | | | | |
|-----------|-----------|--------|------------|
| 0-25 mm | 0.000 mm | 0-1 in | 0.00000 in |
| 25-50 mm | 25.000 mm | 1-2 in | 1.00000 in |
| 50-75 mm | 50.000 mm | 2-3 in | 2.00000 in |
| 75-100 mm | 75.000 mm | 3-4 in | 3.00000 in |

5.2

- (1) 設定の手順は以下の通りです (測定範囲が 25 ~ 50mm の操作例)。
- (2) ORIGIN スイッチを押します。
- (3) ORIGIN スイッチを押しながら「25.000」で測定範囲を設定し、ORIGIN スイッチを押します。
- (4) 「**L**」が点灯している間は表示は変わりません。再度 ORIGIN スイッチを押します。
- (5) 「**L**」が消滅します。これでオリジン値が設定されました。測定範囲が 25 ~ 50mm のオリジン値設定値は、表示を参照してください。

5.3

- 注意**
- 測定中に「ORIGIN」表示が押してしまっった場合は、ZERO/ABS スイッチを押すことにより解除が可能です。それ以外の場合は、電源をオフにしてください。
 - 標準操作の基準値以外でのオリジン値を設定する時は、2 秒の押し続けを行います。
 - 設定した値は、設定メニューで再表示、表示部を HOLD スイッチで押しホールドします。

5.4

- (1) 接続ケーブルを押しします。
- (2) ORIGIN スイッチを押します。「**L**」が点灯します。
- (3) マイクロメータに基準となるものをセットし、定尺装置で所定の測定力をかけます。
- (4) 再度 ORIGIN スイッチを押します。「**L**」が消滅し、設定完了です。

5.5

- 注意**
- 設定したオリジン値に戻したい場合は、電池をセットし直して再設定してください。

6. 仕様

測定範囲 (mm)	: ±1.7 (2)
測定範囲 (in)	: ±1.7 (2)
最小読取値	: 0.001mm
電子化読数	: ±1 カウント
表示部	: LCD 表示 (8 桁およびマイナス付)
電源	: 乾電池 (SR44 No.938882) 個
電池寿命	: 約 400 時間 (使用温度: -10°C ~ 60°C (保存温度))
標準付属品	: スパン (No.301336)、基準棒 (測定範囲が 25mm 以上は標準付属)
保護等級	: IP65 (防塵等級は IEC60529 を参照ください)
対象物入 (等級)	: 突刺に異物は挿入しない。
対象物入 (等級)	: 1 から 9 の範囲から水の連続接触を受けた異物に有害な影響が及ぼされることはありません。

7. 出力機能 (出力付きタイプのみ)

1. 接続ケーブルに付属のクラウドタイプでカバー取り付け時 (M1.7x0.35x2.5No.09A4A78) がはまります。
2. カバーは必ず押します。
3. DATA 表示は、出力スイッチが押されている間は Low に表示します。
4. 接続ケーブルの両端を指さし、接続ケーブルとマイクロメータ本体のコネクタにすき間がないように入力して、接続ケーブルを取り付けはってください。
5. パナチは取外さないでください。

7.1

- 重要**
- 接続ケーブルは、以下の手順でセットしてください (図 1) を参照)。お買い付けの際は、必ず接続ケーブルに付属のクラウドタイプ (No.09A4A78) を接続してください。5-sec は、必ずケーブルの両端を指さし、接続ケーブルとマイクロメータ本体のコネクタにすき間がないように入力して、接続ケーブルを取り付けはってください。
 - パナチは取外さないでください。

7.2

- データフォーマット**
3. オメガフォーマット
- DATA 表示は、出力スイッチが押されている間は Low に表示します。
 - DATA 表示は、出力スイッチが押されている間は Low に表示します。
 - DATA 表示は、出力スイッチが押されている間は Low に表示します。

7.3

- 重要**
- 接続ケーブルは、以下の手順でセットしてください (図 1) を参照)。お買い付けの際は、必ず接続ケーブルに付属のクラウドタイプ (No.09A4A78) を接続してください。5-sec は、必ずケーブルの両端を指さし、接続ケーブルとマイクロメータ本体のコネクタにすき間がないように入力して、接続ケーブルを取り付けはってください。
 - パナチは取外さないでください。

7.4

- データフォーマット**
3. オメガフォーマット
- DATA 表示は、出力スイッチが押されている間は Low に表示します。
 - DATA 表示は、出力スイッチが押されている間は Low に表示します。
 - DATA 表示は、出力スイッチが押されている間は Low に表示します。

7.5

- 重要**
- 接続ケーブルは、以下の手順でセットしてください (図 1) を参照)。お買い付けの際は、必ず接続ケーブルに付属のクラウドタイプ (No.09A4A78) を接続してください。5-sec は、必ずケーブルの両端を指さし、接続ケーブルとマイクロメータ本体のコネクタにすき間がないように入力して、接続ケーブルを取り付けはってください。
 - パナチは取外さないでください。

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安全に関する注意

商品のご使用に当たっては、記載の機能・性能・使用上の注意に従ってご使用ください。それ以外でご使用になりますと安全を損なうおそれがあります。

海外移転に関する注意

本製品は、「外国為替及び外国貿易法」の規制対象商品です。本製品やその技術を海外移転する場合は、事前に弊社にご相談ください。

警告

- 本機に使用している電池や液晶パネルは劇毒性物質を含んでいます。万一その液のこぼれが肌や目や衣服などに付着した場合はすぐに洗ってください。また、電池や液晶パネルは、火気や高温にさらさないでください。破裂の恐れがあります。
- 本機は、使用後は防湿処理を行ってください。

重要

- 分解、改造をしないでください。修理の依頼をください。
- 急な温度変化のある環境での使用、保管をしないでください。また、ご使用の際に室温に十分なままでください。
- 湿度やこのほかの場所での保管は避けてください。
- クラウドとの連携が可能な場合で電圧が不安定な場合は、電源をしっかりと閉めてください。出力付きタイプでは、出力ケーブル付け時および、カバー取り付け時は取り付けねじをしっかりと締めて、予備のいないようしてください。また、使用後は防湿処理を行ってください。
- 落下などの急激なショックを与えない。過激な力を加えないでください。
- 測定前には必ず零点合わせを行ってください。
- 使用前に必ずご確認ください。説明書をお読みください。
- お手入れの際は、稀薄した中性洗剤を含ませた柔らかい布をご使用下さい。アルコール(シンナー)等を使用する不要な薬液や溶剤の使用は、液晶パネルが汚れる場合があります。アルコールを含ませた柔らかい布で拭き取ってください。
- マイクロチップが壊れる場合があります。マイクロチップを無理に曲げたり、衝撃を加えたりしないでください。

1. 各部の名称

1. センソラ
2. クラウド
3. スピーダ部ラチェット (定尺装置内蔵)
4. シンパ部チャット (定尺装置内蔵)
5. 動力マータ
6. カバー (出力付きタイプのみ)
7. データ出力ケーブル (出力付きタイプのみ)
8. 電池蓋 (裏面)
9. HOLD スイッチ
10. ZERO/ABS スイッチ
11. ORIGIN スイッチ (2. 機能付の場合)
12. 表示部

2. 電池のセット

- 重要**
- 電池をセットした場合は、最初に ORIGIN スイッチを押してオージン値が確定されるまでの間 (左ラスタ [2] 1)、チャットを固まさないでください。電圧部の初期設定に失敗し、正常なカウントしない場合があります。万一、チャットを動かしてしまっった場合には、電池をセットし直してください。
 - 電池をセットした後は、ORIGIN (基点) の位置が消失します。ORIGIN (基点) を再設定してください (右ラスタ [2] 1) のチャットを参照してください。
 - 電池の残量が少なくなると、電池の残量を表示します。残量を参照してください。
 - (お買い上げ時付属している) 電池は、機能性能を確保する為のものです。所定の寿命が経過した場合は必ず取り替えてください。
 - 電池の残量が少なくなると、電池の残量を表示します。残量を参照してください。
 - 電池の残量が少

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Safety Precautions

To ensure accurate battery use, use this instrument in conformance with the directions and specifications given in the battery to manual.

Export Control Compliance

The goods, technologies or software described herein may be subject to National or International, or Japanese Export Controls. To export directly or indirectly such matter without prior approval from the appropriate authorities may be treated as a breach of export control regulations and the law.

- WARNING**
 - The silver oxide battery used for this instrument contains infrared substance. Should the liquid or the electrolyte accidentally come into contact with the eye or skin, rinse with water immediately, then consult a physician. Should it get into the mouth, immediately rinse the mouth, swallow slightly of water and vomit. It then consult a physician.
 - The LCD of the contact point on the micrometer is sharp. Handle it with care so as not to scratch yourself.

IMPORTANT

- Do not disassemble. Do not modify this instrument. It may damage the instrument.
- Do not use and store the micrometer at its room where the temperature will change abruptly. Prior to use thermally stabilize the micrometer sufficiently at all times.
- Do not use the micrometer in a humid or dusty environment.
- When using the coolant proof type micrometer in a position where it may be splashed directly with coolant, or the like, ensure that the battery cover is closed tightly. In models with external display, when installing the cover, ensure that the fixing screws are tightly fastened so that there are no gaps. *After use, apply dust prevention measures, as occurrence of dust can lead to device malfunction.*
- Do not apply sudden shocks including a drop or excessive force to the micrometer.
- Always perform focusing prior to measurement.
- Wipe off dust, cutting chips, and moisture from the instrument after use.
- Do not clean the instrument with a soft cloth or use a dilute neutral detergent. Do not use any organic solvent (Thinner, etc.) as they may deform the instrument.
- Do not let the spindle make contact with the workpiece. When a spindle gets dirty, wipe it with a cloth dipped in alcohol to thoroughly remove the dirt and apply micrometer oil (part no. 207000) a little at a time.
- The spindle of this instruments advances 2 mm per one rotation. The spindle rapidly feeds, so be careful not to lock the spindle the last distance measurement or zero point adjustment. To prevent the spindle from locking, the measuring range, the spindle is designed so that it can not be removed from the inner sleeve. Do not allow it to pass the upper limit of the measuring range. It may damage the instrument.
- Do not use an electric marking pen or other such devices on the micrometer again.
- The LCD automatically turns off if it has been idle for 20 minutes. To turn on the LCD, turn the thimble or press the ZERO/ABS button.
- Do not change the battery cover of the battery. Doing so may cause short circuit.
- If the micrometer is not in use for more than 3 months, remove the battery from the micro-meter for safe keeping. The battery could leak and cause damage to the micrometer.
- The accuracy shall not exceed if the product falls or is damaged as a result of fire war and/or including battery drain.
- Do not immerse the micrometer in water during use, as this may possibly lead to infiltration of coolant. In case of rain, remove, exercise caution when using the device in a position where it is sprayed directly with a jet of liquid, as infiltration of coolant, etc., may be unavoidable in such cases, depending on the conditions of use.

Refer to the illustrations on the reverse side while reading this manual.

[1] Name of Each Part

- Spindle
- Clamp knob
- Speeder Ratchet (Constant-force built-in)
- Coatant proof mark
- Thimble Ratchet (Constant-force device built-in)
- Coatant proof mark
- Cover for the external output type only
- Data output connector for the external output type only
- Battery cover (part no. 207000)
- HOLD button
- ORIGIN button (only on inch/metric models)
- LCD
- ORIGIN button (12 inch/mm scaled button only on inch/metric models)
- LCD
- ORIGIN button (12 inch/mm scaled button only on inch/metric models)

[2] Installing the Battery

IMPORTANT

When the battery is set, first press the ORIGIN switch and do not turn the ratchet until the origin value is fixed (see Fig [2]). If the ratchet is moved during this time, initialization of the control unit may be lost, resulting in incorrect counting. If the spindle is moved during this time, re-set the battery again.

The accuracy shall not exceed if the product falls or is damaged as a result of fire war and/or including battery drain. If the battery is not in use for more than 3 months, remove the battery from the micro-meter for safe keeping. The battery could leak and cause damage to the micrometer.

The accuracy shall not exceed if the product falls or is damaged as a result of fire war and/or including battery drain. Do not immerse the micrometer in water during use, as this may possibly lead to infiltration of coolant. In case of rain, remove, exercise caution when using the device in a position where it is sprayed directly with a jet of liquid, as infiltration of coolant, etc., may be unavoidable in such cases, depending on the conditions of use.

Install the supplied battery by referring to the figure in rear (see Fig [2]).

[3] Button Function and Display

1. Button function

(1) ZERO/ABS button: Press to zero-set the display. Press and hold to display the dimension from the datum point (measuring face of the anvils).

(2) HOLD button: Holds the display value.

2. Display indicators

INC: Incremental mode for comparative measurement.

H: The display value is held. To cancel it press the HOLD button.

Ⓜ: The function lock is valid.

3. Function lock

When the function lock is set, **Ⓜ** is lit in the LCD and only the [HOLD] operation is possible. Hold indicator: ORIGIN ZERO/ABS Intrim only on inch/metric models

Operation to be valid function lock: (1) Press and hold [HOLD] and then press [ZERO/ABS] for two seconds or more.

- * [HOLD] first. An "H" is lit in the LCD.

- * [HOLD] in the LCD and "H" disappears.

④ To cancel the function lock, repeat the procedure (1) above.

[4] Error and countermeasures

- (1) Error-S: The battery voltage is low. Immediately replace the battery.
- (2) Error-C: Error indicate when an counting error occurs by noise or overstep. Re-set the battery again and perform origin setting.
- (3) Error-S: Error indicate when a counting error occurs by the initial setting error of the electronic unit or abnormal sensor signal, etc. Re-set the battery again and perform origin setting.

[5] Setting the Origin

IMPORTANT

When the battery is set, first press the ORIGIN switch and do not turn the ratchet until the origin value is fixed (see Fig [2]). If the ratchet is moved during this time, initialization of the control unit may be lost, resulting in incorrect counting. If the spindle is moved during this time, re-set the battery again.

The accuracy shall not exceed if the product falls or is damaged as a result of fire war and/or including battery drain. Do not immerse the micrometer in water during use, as this may possibly lead to infiltration of coolant. In case of rain, remove, exercise caution when using the device in a position where it is sprayed directly with a jet of liquid, as infiltration of coolant, etc., may be unavoidable in such cases, depending on the conditions of use.

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Precauzioni relative alla sicurezza

Per garantire la sicurezza dell'operatore, utilizzare questo strumento in conformità alle direttive e alle specifiche fornite nel manuale d'uso.

Note sulle Norme di Esportazione

Il presente strumento è vietato all'exportazione a scopo di commercio al consumo, alla direzione, al trasporto, all'installazione o all'uso. È vietato l'exportazione di questo strumento senza autorizzazione relativa all'exportazione o riportazione di qualsiasi prodotto.

- La batteria all'acido di argento utilizzata per questo strumento contiene sostanze irritanti.
 - Il liquido contenuto deve essere accidentalmente ingerito in contatto con gli occhi o la pelle, sciacquare immediatamente la bocca, deglutire acqua in abbondanza e vomitare, quindi consultare il medico.
 - Se viene ingerito, sciacquare immediatamente la bocca, deglutire acqua in abbondanza e vomitare, quindi consultare il medico.
 - Se il liquido del contatto point on the micrometer is sharp. Handle it with care so as not to scratch yourself.

Le incavi di questo micrometro sono affilate. Manipolare con cura in modo non graffiato.

ATTENZIONE

- Non tentare di modificare lo strumento. Ciò potrebbe danneggiare lo strumento.
- Non utilizzare e conservare il micrometro in luoghi in cui la temperatura varia bruscamente. Prima dell'utilizzo stabilizzare termicamente il micrometro alla temperatura ambiente.
- Non conservare il micrometro in ambienti umidi o polverosi.
- Quando si utilizza il micrometro in una posizione in cui può essere colpito da spruzzi di liquido refrigerante o altro, accertarsi che il coperchio dell'antera sia ben chiuso. Non modelli con cuscini da esterno, durante l'installazione del coperchio, accertarsi che le vite di fissaggio siano ben serrate e che non ci siano fessure. Dopo l'uso, applicare del prodotto antiruggine in una posizione, o quando la formazione di ruggine può causare il malfunzionamento del dispositivo.
- Non sottoporre il micrometro a colpi improvvisi come una caduta o una forza eccessiva.
- Esigete sempre la messa a luoco prima della misura.
- Dopo l'ufficio, eliminare polvere, trucioli e condensa dalla misura.
- Per pulire lo strumento, utilizzare un panno morbido imbevuto di detergente neutro diluito. Non utilizzare lubrificanti organici (oliante, ecc.). Ciò potrebbe deteriorare o danneggiare lo strumento.
- Il sistema di misurazione a ultrasuoni può essere calibrato dalla microelettronica sporca. Se la vite microelettronica è sporca, pulirla con un panno inamidato con olio per eliminare completamente lo sporco e applicare su esso un po' di olio per il micrometro (oil part no. 207000).
- Il sistema di misurazione a ultrasuoni avanza di 2 mm per rotazione. L'asta di misurazione si muove rapidamente, prestate quindi attenzione a non far avanzare l'asta troppo velocemente durante la misurazione e la regolazione dello zero. Evitare che l'asta di misurazione superi la superficie di misurazione. L'asta di misurazione è progettata in modo che non possa essere rimossa dall'interno della controbussola. Non muoverla oltre il limite superiore dell'intervallo di misurazione. Si potrebbe danneggiare lo strumento.
- Non utilizzare dispositivi come una penna per tracciare elettricità o altri sul micrometro.
- Lo schermo LCD si spegne automaticamente se rimane inattivo per 20 minuti. Per accedere lo schermo LCD, premere il pulsante ZERO/ABS.
- Non caricare o smontare la batteria. Ciò potrebbe causare un cortocircuito.
- Garantir il batteri in uso prodotti quando si scaricano o vengono sostituiti con normali stampe inklusive batteri dannosi.
- Se il micrometro non viene utilizzato per più di 3 mesi, rimuovere la batteria dal micrometro. La batteria potrebbe essere seccata o danneggiata il micrometro.
- La garanzia non si applica se il prodotto si guasta o è danneggiato per normale usura comprese le perdite della batteria.
- Durante l'ufficio non immergere il micrometro in acqua, refrigeranti o altri liquidi in quanto ciò può causare infiltrazioni che possono danneggiare lo strumento. Analogue precauzioni dovranno essere prese in caso di esposizione a spruzzi o vapori.

Durante la lettura del manuale, fare riferimento alle immagini riportate sul manuale stesso.

[1] DENOMINAZIONE DEI COMPONENTI

- Spindel
2. Pomello di bloccaggio
3. Battente di arresto di avanzamento (solo per versioni con forza costante)
4. Fessura sul battente (dispositivo integrabile per forze costanti)
5. Solo per tipo impermeabile modello "Coatant"
6. Coperchio (solo per la versione con uscita dall'esterno)
7. Coperchio sulla data (solo per la versione con uscita dall'esterno)
8. Connettore senza batteria (parte superiore)
9. Pulsante ZERO/ABS
10. Pulsante HOLD
11. Pulsante ORIGIN
12. Pulsante di selezione pollicemetrico (solo sui modelli con sistema pollicemetrico)
13. Schermo LCD

[2] INSTALLAZIONE DELLA BATTERIA

IMPORTANT

Quando viene inserita la batteria, premere prima l'interruttore ORIGIN e non ruotare la chiave finché non è fissato il valore zero (vedere Fig. [2]). Se la frizione viene spostata durante questo intervallo di tempo, l'inizializzazione dell'unità di controllo può essere pregiudicata, causando un conteggio non corretto. Se l'asta di misurazione viene spostata durante questo intervallo di tempo, inserire nuovamente la batteria.

La batteria viene rimossa e quindi reinstallata. l'operazione dell'ORIGIN (punto zero) viene cancellata. In caso di errore, impostare nuovamente l'ORIGIN (punto zero). (Vedere riferimento alla sezione [5]).

Utilizzare lo schermo LCD a batteria e toltone con cura il coperchio di arresto SR44.

La batteria forma viene utilizzata in modo da controllare le funzioni e le prestazioni dello strumento e potrebbe inoltre non garantire la durata specificata.

Installare con cautela il coperchio della batteria in modo che sia completamente inserito nella fessura del foro e che la guarnizione non forisca dal coperchio. Evitare il contatto e la guarnizione della batteria non sono completamente installati, il micrometro potrebbe non visualizzare un valore corretto o potrebbero verificarsi dei dati.

Non tentare di installare una visualizzazione con una visualizzazione di un errore o un difetto di misurazione, la batteria deve essere rimossa e quindi reinstallata.

Per il display della batteria, ruotare in un luogo ordinato dove si possa facilmente trovare.

Installare la batteria fornita facendo riferimento alla figura a sinistra (vedere Fig. [2]).

[3] FUNZIONE DEI PULSANTI E INDICAZIONI DEL DISPLAY

1. Funzione dei pulsanti

(1) Pulsante ZERO/ABS: Premere per impostare a zero il display. Mantenere premuto per qualche istante per visualizzare il valore zero (vedere Fig. [2]).

(2) Pulsante HOLD: Fissa il valore visualizzato.

2. Indicatori del display

INC: Modalità incrementale per misurazioni comparative.

H: Il valore del display è stato fissato. Per cancellarlo, premere il pulsante HOLD.

3. Blocco funzione

Quando viene impostato il blocco funzione, il simbolo **Ⓜ** si illumina sullo schermo LCD e risulta possibile solo il funzionamento [HOLD].

Interruttori non attivati: ORIGIN ZERO/ABS Intrim (solo sui modelli con sistema pollicemetrico)

Funzionamento se è impostato il blocco funzione: (1) Premere il tasto premuto [HOLD] per 20 secondi (ZERO/ABS) per 2 sec. o poco più.

(2) Premere prima [HOLD]. Una "H" si illumina sullo schermo LCD.

(3) Se viene visualizzato il valore 25,000 e la lettera "H" lampeggia, premere ancora il pulsante ORIGIN. Il valore visualizzato torna allo zero e viene cancellata la lettera "H" lampeggiante.

(4) La lettera "H" scompare, indicando che l'origine è stata impostata.

Il valore dell'origine differisce in base all'intervallo di misurazione, come indicato nella tabella A a sinistra.

[5] IMPOSTAZIONE DELL'ORIGINE

IMPORTANT

Quando viene inserita la batteria, premere prima l'interruttore ORIGIN e non ruotare la chiave finché non è fissato il valore zero (vedere Fig. [2]). Se la frizione viene spostata durante questo intervallo di tempo, l'inizializzazione dell'unità di controllo può essere pregiudicata, causando un conteggio non corretto. Se l'asta di misurazione viene spostata durante questo intervallo di tempo, inserire nuovamente la batteria.

La batteria viene rimossa e quindi reinstallata. l'operazione dell'ORIGIN (punto zero) viene cancellata. In caso di errore, impostare nuovamente l'ORIGIN (punto zero). (Vedere riferimento alla sezione [5]).

Utilizzare lo schermo LCD a batteria e toltone con cura il coperchio di arresto SR44.

La batteria forma viene utilizzata in modo da controllare le funzioni e le prestazioni dello strumento e potrebbe inoltre non garantire la durata specificata.

Installare con cautela il coperchio della batteria in modo che sia completamente inserito nella fessura del foro e che la guarnizione non forisca dal coperchio. Evitare il contatto e la guarnizione della batteria non sono completamente installati, il micrometro potrebbe non visualizzare un valore corretto o potrebbero verificarsi dei dati.

Non tentare di installare una visualizzazione con una visualizzazione di un errore o un difetto di misurazione, la batteria deve essere rimossa e quindi reinstallata.

Per il display della batteria, ruotare in un luogo ordinato dove si possa facilmente trovare.

Installare la batteria fornita facendo riferimento alla figura a sinistra (vedere Fig. [2]).

The accuracy shall not exceed if the product falls or is damaged as a result of fire war and/or including battery drain. Do not immerse the micrometer in water during use, as this may possibly lead to infiltration of coolant. In case of rain, remove, exercise caution when using the device in a position where it is sprayed directly with a jet of liquid, as infiltration of coolant, etc., may be unavoidable in such cases, depending on the conditions of use.

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