









9.0 Tasten-Funktionen

| | | | | | | | |
|--|---|---|---|---|--|---|---|
| <p>Taste </p> <p>kurz drücken, loslassen</p> | <p>Taste </p> <p>anhaltend drücken (>2 Sek.)</p> | <p>Button </p> <p>Press briefly, then release</p> | <p>Button </p> <p>Press longer (>2 sec.)</p> | <p>bouton </p> <p>Presser, relâcher</p> | <p>bouton </p> <p>Pression continue (>2 sec.)</p> | <p>Tasto </p> <p>premere brevemente</p> | <p>Tasto </p> <p>premere e tenere premuto rilasciare (>2 sec.)</p> |
|--|---|---|---|---|--|---|---|

9.1 Funktionswahl

Taste MODE oder Taste MODE

Button MODE or Button MODE

bouton MODE ou bouton MODE

Tasto MODE oppure Tasto MODE

bis zum Erhalt des gewünschten Parameters drücken.
Nach 4 Sek. ohne Betätigung der Tasten, schaltet das Gerät in den Messmodus zurück.

Press until the required parameter is displayed.
If the buttons are not pressed again within 4 seconds, the instrument returns automatically to measuring mode.

presser jusqu'à l'affichage du paramètre désiré.
Si aucune action n'est effectuée sur les boutons pendant 4 sec, l'instrument retourne automatiquement en mode de mesure.

Premere fino alla visualizzazione del parametro desiderato.
Se i tasti non vengono azionati per 4 secondi, l'apparecchio ricomincia nel modo misurazione.

9.2 Reinitialisation des angezeigten Wertes

Die elektronische Verzögerung erlaubt das Vermeiden einer fehlerhaften Initialisierung der Anzeige (hervorgehoben von Einflüssen, verbunden mit der mechanischen Stabilisierung des Gerätes).

The electronic delay time avoids an incorrect initialization of the display (due to influences caused by the mechanical stabilisation of the instrument).

La temporisation électronique permet d'éviter une initialisation erronée de l'affichage (due aux influences liées à la stabilisation mécanique de l'instrument).

Il ritardo elettronico consente di evitare un'inizializzazione errata del display (causata da influenze dovuti alla stabilizzazione meccanica dell'apparecchio).

verbunden mit der mechanischen Stabilisierung des Gerätes.)

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9.3 Null-Rückstellung

Taste drücken bis Anzeige erscheint, dann Taste drücken

Press button until is displayed then Press button

Remise à zéro de l'affichage digital et analogique. Réinitialisation les valeurs Min et Max (mode de travail MIN, MAX ou MIN MAX)

Remise à zéro de l'affichage digital et analogique. Réinitialisation les valeurs Min et Max (mode de travail MIN, MAX ou MIN MAX)

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Remise à zéro de l'affichage digital et analogique. Réinitialisation les valeurs Min et Max (mode de travail MIN, MAX ou MIN MAX)

Secondo il modo operativo, il display viene reinitializzato come segue:

- Nel modo **NOR** (NORMALE): azzeramento del display digitale e analogico
- Nel modo **MIN** o **MAX**: il valore digitale del MIN (o MAX) viene re-inizializzato nella posizione di misura corrente. Il display analogico non viene influenzato.
- Nel modo **MIN MAX** (DELTA): azzeramento del DELTA (valore digitale). Il display analogico non viene influenzato.

9.4 Wahl der Messfunktionen

Taste drücken bis Anzeige erscheint, dann Taste drücken für die Wahl von

Press button until is displayed then Press button to select mode

Note: in MIN, MAX, MIN MAX (Delta) mode, the digital display memorizes the MIN, MAX values, respectively the measured Delta value. The analog display indicates the instantané position.

Note: in MIN, MAX, MIN MAX (Delta) mode, the digital display memorizes the MIN, MAX values, respectively the measured Delta value. The analog display indicates the instantané position.

Note: in MIN, MAX, MIN MAX (Delta), l'affichage digital mémorise la valeur MIN, MAX, respectivement la valeur Delta mesurée. L'affichage analogique indique la position instantanée.

Nota: nel modo MIN, MAX oppure MIN MAX (Delta), il display digitale memorizza il valore MIN, MAX, o il valore Delta misurato. Il display analogico mostra la posizione del momento.

9.5 Wechsel des Anzeigefaktors der Skalenanzeige

Taste drücken bis Anzeige erscheint, dann Taste drücken für die Wahl von

Press button until is displayed then Press button to select the ratio

Note: Each step of the analog scale corresponds to 1 digit (respect. 2 and 5 digits) of the digital display. The total range of the analog scale is ± 25 steps.

Exemple: Unit (mm), Résolution (0,001), Scale ratio (x5): 1 step = 0,005 mm total range: ± 0,125 mm

Note: Chaque échelon de l'échelle analogique correspond à 1 chiffre (respect. 2 et 5 chiffres) de l'affichagedigital. L'étendue totale de l'échelle analogique est de ± 25 échelons.

Esempio: Unità (mm), risoluzione (0,001), fattore di scala (x5): 1 graduazione = 0,005 mm Campo totale: ± 0,125 mm

Nota: ogni graduazione della scala analogica corrisponde a 1 cifra (rispettivamente 2 e 5 cifre) del display digitale. Il campo totale della scala analogica è di ± 25 graduazioni.

9.6 Wechsel des Ziffernschrittwertes

Taste drücken bis Anzeige erscheint, dann Taste drücken für die Wahl des Ziffernschrittwertes

Press button until is displayed then Press button to select the resolution

Note: Each step of the analog scale corresponds to 1 digit (respect. 2 and 5 digits) of the digital display. The total range of the analog scale is ± 25 steps.

Exemple: Unit (mm), Résolution (0,001), Scale ratio (x5): 1 step = 0,005 mm total range: ± 0,125 mm

Note: Chaque échelon de l'échelle analogique correspond à 1 chiffre (respect. 2 et 5 chiffres) de l'affichagedigital. L'étendue totale de l'échelle analogique est de ± 25 échelons.

Esempio: Unità (mm), risoluzione (0,001), fattore di scala (x5): 1 graduazione = 0,005 mm Campo totale: ± 0,125 mm

Nota: ogni graduazione della scala analogica corrisponde a 1 cifra (rispettivamente 2 e 5 cifre) del display digitale. Il campo totale della scala analogica è di ± 25 graduazioni.

9.7 Wechsel der Maßeinheit

Taste drücken bis Anzeige erscheint, dann Taste drücken für die Wahl der Maßeinheit

Press button until is displayed then Press button to select the measuring unit

Note: Each step of the analog scale corresponds to 1 digit (respect. 2 and 5 digits) of the digital display. The total range of the analog scale is ± 25 steps.

Exemple: Unit (mm), Résolution (0,001), Scale ratio (x5): 1 step = 0,005 mm total range: ± 0,125 mm

Note: Chaque échelon de l'échelle analogique correspond à 1 chiffre (respect. 2 et 5 chiffres) de l'affichagedigital. L'étendue totale de l'échelle analogique est de ± 25 échelons.

Esempio: Unità (mm), risoluzione (0,001), fattore di scala (x5): 1 graduazione = 0,005 mm Campo totale: ± 0,125 mm

Nota: ogni graduazione della scala analogica corrisponde a 1 cifra (rispettivamente 2 e 5 cifre) del display digitale. Il campo totale della scala analogica è di ± 25 graduazioni.

9.8 Wahl des Ausschalt-Modus

Taste drücken bis Anzeige erscheint, dann Taste drücken für die Wahl des Ausschalt-Modus

Press button until is displayed then Press button to select switch off delay mode

In **nor**-Modus: kein automatisches Ausschalten. Das Gerät arbeitet kontinuierlich. In **Auto**-Modus: automatisches Ausschalten nach 2 Std. Nichtbenutzens, wenn:

- keine Bewegung des Messeinsatzes
- keine Tasteraktion (beim Einschalten verliert das Gerät den Bezugswert).

Forcing switch off: Press button until the display switches off.

In **nor**-mode: No automatic switch off. The instrument remains continuously in operation (ON). In **Auto**-mode: Automatic switch off after 2 hours when:

- no measuring insert movement
- no action on any key (when switching on, the instrument loses the original value).

Forcer l'extinction de l'instrument: pressant bouton jusqu'à l'extinction de l'affichage.

Nel modo **nor**: nessuna disattivazione automatica. L'apparecchio continua a lavorare. Nel modo **Auto**: disattivazione automatica dopo 2 ore di inutilizzo, se:

- nessun movimento del tastatore
- nessuna attivazione dei tasti (all'atto dell'accensione l'apparecchio perde il valore di riferimento).

Forzare lo spegnimento: Premere il tasto fino allo spegnimento del display.

9.9 Wechsel des Ziffernschrittwertes

Taste drücken bis Anzeige erscheint, dann Taste drücken für die Wahl des Ziffernschrittwertes

Press button until is displayed then Press button to select the resolution

Note: Each step of the analog scale corresponds to 1 digit (respect. 2 and 5 digits) of the digital display. The total range of the analog scale is ± 25 steps.

Exemple: Unit (mm), Résolution (0,001), Scale ratio (x5): 1 step = 0,005 mm total range: ± 0,125 mm

Note: Chaque échelon de l'échelle analogique correspond à 1 chiffre (respect. 2 et 5 chiffres) de l'affichagedigital. L'étendue totale de l'échelle analogique est de ± 25 échelons.

Esempio: Unità (mm), risoluzione (0,001), fattore di scala (x5): 1 graduazione = 0,005 mm Campo totale: ± 0,125 mm

Nota: ogni graduazione della scala analogica corrisponde a 1 cifra (rispettivamente 2 e 5 cifre) del display digitale. Il campo totale della scala analogica è di ± 25 graduazioni.

9.10 Wechsel der Maßeinheit

Taste drücken bis Anzeige erscheint, dann Taste drücken für die Wahl der Maßeinheit

Press button until is displayed then Press button to select the measuring unit

Note: Each step of the analog scale corresponds to 1 digit (respect. 2 and 5 digits) of the digital display. The total range of the analog scale is ± 25 steps.

Exemple: Unit (mm), Résolution (0,001), Scale ratio (x5): 1 step = 0,005 mm total range: ± 0,125 mm

Note: Chaque échelon de l'échelle analogique correspond à 1 chiffre (respect. 2 et 5 chiffres) de l'affichagedigital. L'étendue totale de l'échelle analogique est de ± 25 échelons.

Esempio: Unità (mm), risoluzione (0,001), fattore di scala (x5): 1 graduazione = 0,005 mm Campo totale: ± 0,125 mm

Nota: ogni graduazione della scala analogica corrisponde a 1 cifra (rispettivamente 2 e 5 cifre) del display digitale. Il campo totale della scala analogica è di ± 25 graduazioni.

9.11 Wahl des Ausschalt-Modus

Taste drücken bis Anzeige erscheint, dann Taste drücken für die Wahl des Ausschalt-Modus

Press button until is displayed then Press button to select switch off delay mode

In **nor**-Modus: kein automatisches Ausschalten. Das Gerät arbeitet kontinuierlich. In **Auto**-Modus: automatisches Ausschalten nach 2 Std. Nichtbenutzens, wenn:

- keine Bewegung des Messeinsatzes
- keine Tasteraktion (beim Einschalten verliert das Gerät den Bezugswert).

Forcing switch off: Press button until the display switches off.

In **nor**-mode: No automatic switch off. The instrument remains continuously in operation (ON). In **Auto**-mode: Automatic switch off after 2 hours when:

- no measuring insert movement
- no action on any key (when switching on, the instrument loses the original value).

Forcer l'extinction de l'instrument: pressant bouton jusqu'à l'extinction de l'affichage.

Nel modo **nor**: nessuna disattivazione automatica. L'apparecchio continua a lavorare. Nel modo **Auto**: disattivazione automatica dopo 2 ore di inutilizzo, se:

- nessun movimento del tastatore
- nessuna attivazione dei tasti (all'atto dell'accensione l'apparecchio perde il valore di riferimento).

Forzare lo spegnimento: Premere il tasto fino allo spegnimento del display.

9.12 Wahl des Ausschalt-Modus

Taste drücken bis Anzeige erscheint, dann Taste drücken für die Wahl des Ausschalt-Modus

Press button until is displayed then Press button to select switch off delay mode

In **nor**-Modus: kein automatisches Ausschalten. Das Gerät arbeitet kontinuierlich. In **Auto**-Modus: automatisches Ausschalten nach 2 Std. Nichtbenutzens, wenn:

- keine Bewegung des Messeinsatzes
- keine Tasteraktion (beim Einschalten verliert das Gerät den Bezugswert).

Forcing switch off: Press button until the display switches off.

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- no measuring insert movement
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Nel modo **nor**: nessuna disattivazione automatica. L'apparecchio continua a lavorare. Nel modo **Auto**: disattivazione automatica dopo 2 ore di inutilizzo, se:

- nessun movimento del tastatore
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Forzare lo spegnimento: Premere il tasto fino allo spegnimento del display.

10. Datenausgang 10. Data Output 10. Sortie de données 10. Uscita dati

MarConnect-Schnittstelle

Die Datenkabel 800 EWr und 800 Ewu werden an Stelle des Batteriefachs eingeschoben und verschraubt, siehe Punkt 7, „Batterie einlegen, bzw wechseln“. Sie dienen nicht nur der Datenübertragung sondern auch der Stromversorgung des Fühlhelmsmessgeräts.

The data cables 800 EWr and 800 Ewu are inserted and screwed into position in the battery compartment see point 7, „Inserting / changing the battery“. These data cables are not only for data communication but also provide a power to the digital test indicator.

Les cables pour exploitation de données doivent être insérés dans le logement de al pile et la vis de maintien serrée, voir point 7 (changement de al pile). Ces cables servent aussi à l'alimentation électrique de l'appareil.

Ieri cables per l'esploitation de dati devonno essere inseriti nel vano batterie e avvitati, vedi punto 7, „Inserire o sostituire batterie“. Non servono solo per la trasmissione dei dati ma anche per l'alimentazione elettrica del comparatore a leva.

Abdichtungsgummiring Hinweis: Die Abdichtung ist nur mit montiertem Gummiring und eingeschraubtem Stecker garantiert.

Rubber sealing ring Note: The sealing is only guaranteed when using the fitted rubber ring and the plug connector is screwed into position.

Joint d'étanchéité Note : L'étanchéité n'est garantie que par le bon positionnement du joint et le serrage de la vis du connecteur.

Guarnizione anulare di gomma: Nota: la tenuta è garantita solo a guarnizione anulare di gomma montata e connettore avvitato.

Verbindungskontakte zum Gerät Achtung! Nicht beschädigen, nicht verschmutzen!

Connecting contacts to the measuring instrument Attention! Do not damage, do not contaminate!

Contacts électriques : Attention : ne pas souiller, ne pas détériorer.

Contatti di connessione. Attenzione! Non danneggiare, non sporcare!

| <p>Opto RS232C duplex Datenkabel 800 EWr</p> <p>Best.-Nr. 4305122</p> <table border="1"> <tr><th>Pin No.</th><th>Funktion</th></tr> <tr><td>1</td><td>Startbit</td></tr> <tr><td>2</td><td>Txd Data output</td></tr> <tr><td>3</td><td>Rxd Data input</td></tr> <tr><td>4</td><td>V+</td></tr> <tr><td>5</td><td>gerade Parität</td></tr> <tr><td>6</td><td>2 Stoppbits</td></tr> <tr><td>7</td><td>v.</td></tr> <tr><td>8</td><td>4800 Bauds</td></tr> <tr><td>9</td><td>Messwertanforderung: ? CR</td></tr> </table> <p>Übertragungsparameter:</p> <ul style="list-style-type: none"> 1 Startbit 7 Bit Wortbreite gerade Parität 2 Stoppbits 4800 Bauds Messwertanforderung: ? CR | Pin No. | Funktion | 1 | Startbit | 2 | Txd Data output | 3 | Rxd Data input | 4 | V+ | 5 | gerade Parität | 6 | 2 Stoppbits | 7 | v. | 8 | 4800 Bauds | 9 | Messwertanforderung: ? CR | <p>Opto RS232C duplex Data cable 800 EWr</p> <p>Order no. 4305122</p> <table border="1"> <tr><th>Pin No.</th><th>Function</th></tr> <tr><td>1</td><td>Start bit</td></tr> <tr><td>2</td><td>Txd Data output</td></tr> <tr><td>3</td><td>Rxd Data input</td></tr> <tr><td>4</td><td>V+</td></tr> <tr><td>5</td><td>even parity</td></tr> <tr><td>6</td><td>2 stopbits</td></tr> <tr><td>7</td><td>v.</td></tr> <tr><td>8</td><td>4800 bauds</td></tr> <tr><td>9</td><td>request for measuring value: ? CR</td></tr> </table> <p>Transmission parameter:</p> <ul style="list-style-type: none"> 1 startbit 7 bit databits even parity 2 stopbits 4800 bauds request for measuring value: ? CR | Pin No. | Function | 1 | Start bit | 2 | Txd Data output | 3 | Rxd Data input | 4 | V+ | 5 | even parity | 6 | 2 stopbits | 7 | v. | 8 | 4800 bauds | 9 | request for measuring value: ? CR |
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| Pin No. | Funktion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Startbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Txd Data output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Rxd Data input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | V+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | gerade Parität | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 Stoppbits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | v. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 4800 Bauds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Messwertanforderung: ? CR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin No. | Function | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Start bit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Txd Data output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Rxd Data input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | V+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | even parity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 stopbits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | v. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 4800 bauds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | request for measuring value: ? CR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| <p>USB (Com-Port Emulation) Datenkabel 800 Ewu</p> <p>Best.-Nr. 4305121</p> <table border="1"> <tr><th>Pin No.</th><th>Funktion</th></tr> <tr><td>1</td><td>1 Startbit</td></tr> <tr><td>2</td><td>Txd Data output</td></tr> <tr><td>3</td><td>Rxd Data input</td></tr> <tr><td>4</td><td>V+</td></tr> <tr><td>5</td><td>gerade Parität</td></tr> <tr><td>6</td><td>2 Stoppbits</td></tr> <tr><td>7</td><td>v.</td></tr> <tr><td>8</td><td>4800 Bauds</td></tr> <tr><td>9</td><td>Messwertanforderung: ? CR</td></tr> </table> <p>Übertragungsparameter:</p> <ul style="list-style-type: none"> 1 Startbit 7 Bit Wortbreite gerade Parität 2 Stoppbits 4800 Bauds Messwertanforderung: ? CR | Pin No. | Funktion | 1 | 1 Startbit | 2 | Txd Data output | 3 | Rxd Data input | 4 | V+ | 5 | gerade Parität | 6 | 2 Stoppbits | 7 | v. | 8 | 4800 Bauds | 9 | Messwertanforderung: ? CR | <p>USB (Com-Port Emulation) Data cable 800 Ewu</p> <p>Order no. 4305121</p> <table border="1"> <tr><th>Pin No.</th><th>Function</th></tr> <tr><td>1</td><td>1 startbit</td></tr> <tr><td>2</td><td>Txd Data output</td></tr> <tr><td>3</td><td>Rxd Data input</td></tr> <tr><td>4</td><td>V+</td></tr> <tr><td>5</td><td>even parity</td></tr> <tr><td>6</td><td>2 stopbits</td></tr> <tr><td>7</td><td>v.</td></tr> <tr><td>8</td><td>4800 bauds</td></tr> <tr><td>9</td><td>request for measuring value: ? CR</td></tr> </table> <p>Transmission parameter:</p> <ul style="list-style-type: none"> 1 startbit 7 bit databits even parity 2 stopbits 4800 bauds request for measuring value: ? CR | Pin No. | Function | 1 | 1 startbit | 2 | Txd Data output | 3 | Rxd Data input | 4 | V+ | 5 | even parity | 6 | 2 stopbits | 7 | v. | 8 | 4800 bauds | 9 | request for measuring value: ? CR |
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| Pin No. | Funktion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 Startbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Txd Data output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Rxd Data input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | V+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | gerade Parität | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 Stoppbits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8 | 4800 Bauds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Messwertanforderung: ? CR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7 | v. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 4800 bauds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | request for measuring value: ? CR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| <p>Opto RS232C duplex Datenkabel 800 EWr</p> <p>Best.-Nr. 4305122</p> <table border="1"> <tr><th>Pin No.</th><th>Funktion</th></tr> <tr><td>1</td><td>Startbit</td></tr> <tr><td>2</td><td>Txd Data output</td></tr> <tr><td>3</td><td>Rxd Data input</td></tr> <tr><td>4</td><td>V+</td></tr> <tr><td>5</td><td>gerade Parität</td></tr> <tr><td>6</td><td>2 Stoppbits</td></tr> <tr><td>7</td><td>v.</td></tr> <tr><td>8</td><td>4800 Bauds</td></tr> <tr><td>9</td><td>Messwertanforderung: ? CR</td></tr> </table> <p>Übertragungsparameter:</p> <ul style="list-style-type: none"> 1 Startbit 7 Bit Wortbreite gerade Parität 2 Stoppbits 4800 Bauds Messwertanforderung: ? CR | Pin No. | Funktion | 1 | Startbit | 2 | Txd Data output | 3 | Rxd Data input | 4 | V+ | 5 | gerade Parität | 6 | 2 Stoppbits | 7 | v. | 8 | 4800 Bauds | 9 | Messwertanforderung: ? CR | <p>Opto RS232C duplex Data cable 800 EWr</p> <p>Order no. 4305122</p> <table border="1"> <tr><th>Pin No.</th><th>Function</th></tr> <tr><td>1</td><td>Start bit</td></tr> <tr><td>2</td><td>Txd Data output</td></tr> <tr><td>3</td><td>Rxd Data input</td></tr> <tr><td>4</td><td>V+</td></tr> <tr><td>5</td><td>even parity</td></tr> <tr><td>6</td><td>2 stopbits</td></tr> <tr><td>7</td><td>v.</td></tr> <tr><td>8</td><td>4800 bauds</td></tr> <tr><td>9</td><td>request for measuring value: ? CR</td></tr> </table> <p>Transmission parameter:</p> <ul style="list-style-type: none"> 1 startbit 7 bit databits even parity 2 stopbits 4800 bauds request for measuring value: ? CR | Pin No. | Function | 1 | Start bit | 2 | Txd Data output | 3 | Rxd Data input | 4 | V+ | 5 | even parity | 6 | 2 stopbits | 7 | v. | 8 | 4800 bauds | 9 | request for measuring value: ? CR |
|---|-----------------------------------|----------|---|----------|---|-----------------|---|----------------|---|----|---|----------------|---|-------------|---|----|---|------------|---|---------------------------|---|---------|----------|---|-----------|---|-----------------|---|----------------|---|----|---|-------------|---|------------|---|----|---|------------|---|-----------------------------------|
| Pin No. | Funktion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Startbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Txd Data output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Rxd Data input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | V+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | gerade Parität | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 Stoppbits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | v. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 4800 Bauds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Messwertanforderung: ? CR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin No. | Function | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Start bit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Txd Data output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Rxd Data input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | V+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | even parity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 stopbits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | v. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 4800 bauds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | request for measuring value: ? CR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Digitales Fühlhelmsmessgerät
Digital Test Indicator
Compateur à levier digital
Comparatore a leva digitale

MarTest
800 EW / EWL

Bedienungsanleitung
Operating Instructions
Instructions de Service
Manuale di Istruzioni

3756700

Mahr GmbH
Standort Esslingen
Reutlinger Str. 48, 73728 Esslingen
Tel.: +49 711 9312 600, Fax: +49 711 9312 725
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| | | | |
|---|------------------------------|---|-----------------------------|
| 1. Bestimmungsgemäße Verwendung (DE) | 1. Permitted use (EN) | 1. Utilisation conforme à l'usage prévu (FR) | 1. Uso previsto (IT) |
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| <p>Das digitale Fühlhebelsmessgerät MarTest dient zum Messen von Längenmaßen in der Produktion, in der Qualitätssicherung oder in der Werkstatt. Die bestimmungsgemäße Verwendung erfordert das Beachten aller veröffentlichten Informationen zu diesem Produkt. Eine andere oder darüber hinausgehende Benutzung gilt als nicht bestimmungsgemäß. Für hieraus entstehende Schäden haftet der Hersteller nicht. Beachten Sie die für den Einsatzbereich geltenden gesetzlichen und anderweitigen Vorschriften und Richtlinien.</p> <p>Vor Inbetriebnahme des Geräts empfehlen wir Ihnen diese Bedienungsanleitung aufmerksam zu lesen.</p> | <p>The Digital Test Indicator MarTest is to be used to determine length measurements and can be employed in production, quality control and in the workshop. Permitted use is subject to compliance with all published information relating to this product. Any other use is not in accordance with the permitted use. The manufacturer accepts no liability for damages resulting from improper use. All statutory and other regulations and guidelines applicable to the area of use must be observed.</p> <p>In order to achieve the best use of this instrument it is most important that you read the operating instructions first.</p> | <p>Le comparateur à levier digital MarTest sert à la mesure de longueurs en production, en assurance qualité ou en atelier.</p> <p>L'utilisation conforme à l'usage prévu nécessite le respect de toutes les informations publiées sur ce produit. Toute utilisation différente ou sortant du cadre de cette spécification est considérée comme non-conforme. Le fabricant décline toute responsabilité pour les dommages qui en découlent. Respecter les prescriptions et directives légales et autres en vigueur pour le domaine d'utilisation.</p> <p>Avant la première mise en service, nous vous recommandons de lire attentivement ce mode d'emploi.</p> | <p>Il comparatore a leva digitale MarTest serve a misurare la lunghezza in fase di produzione e assicurazione qualità o in officina.</p> <p>L'uso previsto richiede l'osservanza di tutte le informazioni pubblicate su questo prodotto. Qualsiasi altro utilizzo è considerato non appropriato. Il produttore non è responsabile degli eventuali danni. Attenersi alle norme di legge e alle altre prescrizioni e linee guida vigenti per il campo di applicazione considerato.</p> <p>Per utilizzare al meglio il calibro è importante leggere il manuale di istruzioni</p> |
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| 2. Lieferumfang | 2. Delivery | 2. L'équipement de base | 2. La fornitura di base |
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| <p>Zum Lieferumfang des Digitalen Fühlhebelsmessgeräts MarTest gehören:</p> <ul style="list-style-type: none"> - Digitales Fühlhebelsmessgerät MarTest - Einspannschaft 800 a - Schlüssel zum Wechseln der Messeinsätze - Batterie CR 2032 - Bedienungsanleitung - Prüfprotokoll | <p>Basically the Digital Test Indicator MarTest consists of:</p> <ul style="list-style-type: none"> - Digital Test Indicator MarTest - Mounting shaft 800 a - Spanner for changing stylii - Battery CR 2032 - Operating instructions - Test certificate | <p>L'équipement de base du comparateur à levier digital MarTest comprend :</p> <ul style="list-style-type: none"> - Comparateur à levier digital MarTest - Canon de montage 800 a - Clé pour changer les palpeurs - la pile CR 2032 - Mode d'emploi - certificat de contrôle | <p>La fornitura di base del comprende:</p> <ul style="list-style-type: none"> - Comparatore a leva digitale MarTest - Codolo di fissaggio 800 a - Chiave per la sostituzione del tastatore - la batteria incorporata CR 2032 - Manuale di istruzioni - Certificato di controllo |
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| 3. Wichtige Hinweise vor Inbetriebnahme | 3. Important hints prior to initial operation | 3. Consignes importantes avant la première mise en service | 3. Note importanti prima della messa in funzione |
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| <ul style="list-style-type: none"> • Verschmutzte Geräte mit einem trockenen, weichen Tuch reinigen. Bei starker Verschmutzung mit einem angefeuchteten Tuch abwischen. Flüchtige organische Lösungsmittel wie Verdünnern sind zu vermeiden, da diese Flüssigkeiten das Gehäuse beschädigen können. • Die Lager des Geräts dürfen nicht geölt werden. • Beim Öffnen des Geräts erlischt der Garantieanspruch. <p>Wir wünschen Ihnen viel Erfolg beim Einsatz Ihres Fühlhebelsmessgeräts. Falls Sie Fragen haben, stehen Ihnen unsere technischen Berater gerne zur Verfügung.</p> | <ul style="list-style-type: none"> • Clean a dirty instrument with a dry, soft cloth. Remove heavy soiling with a slightly moistened cloth. Volatile organic solvents like thinners are not to be used as these liquids can damage the housing. • Do not oil the bearings. • Unauthorized opening of the instruments forfeits the warranty. <p>We wish you a satisfactory and long service of your Test Indicator. Should you have any questions regarding the instrument, contact us and we shall be pleased to answer them.</p> | <ul style="list-style-type: none"> • Nettoyer le boîtier avec un chiffon sec et doux. En cas de saleté importante, essuyer avec un chiffon humide. Éviter les solvants organiques et volatils, tels que les diluants, ces liquides risquant d'endommager le boîtier. • Il n'y a pas à huiler les paliers de l'appareil. • L'ouverture de l'appareil entraîne l'annulation de la garantie. <p>Nous vous souhaitons un fonctionnement optimal et une longue durée de vie de votre comparateur à levier. Nos conseillers techniques sont à votre entière disposition pour répondre à toutes vos questions.</p> | <ul style="list-style-type: none"> • Pulire lo strumento con un panno asciutto. In caso di sporco persistente pulire con un panno leggermente inumidito. Evitare l'utilizzo di solventi organici e volatili quali i diluanti, potrebbero danneggiare lo strumento in modo irreparabile. • Non oliare i cuscinetti. • L'apertura dello strumento fa decadere immediatamente la garanzia. <p>Nell'augurarVi un uso ottimale e duraturo dello strumento, facciamo presente che i nostri Tecnici sono a disposizione per qualsiasi Vostra necessità.</p> |
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| 4. Sicherheitshinweis | 4. Safety Information | 4. Indications de Sécurité | 4. Avvertenze di sicurezza |
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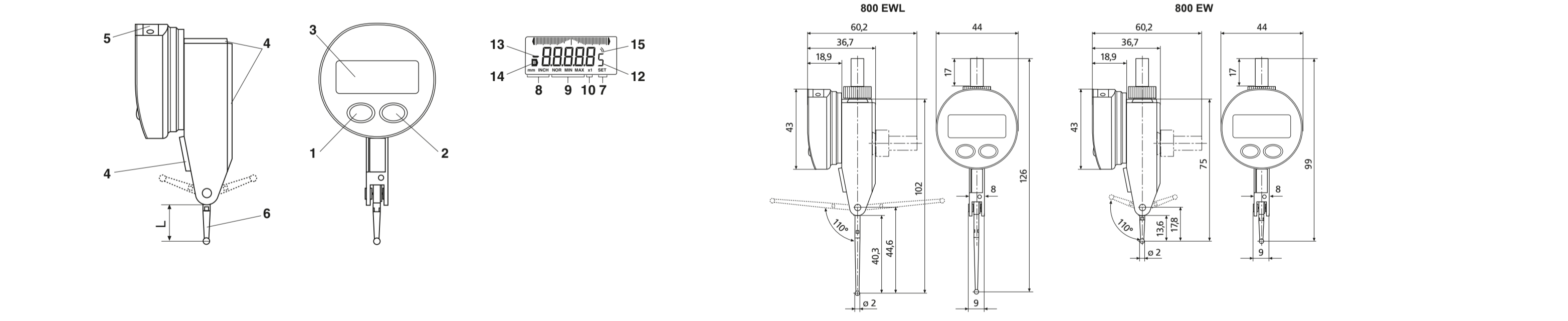
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| <p>Batterie</p> <ul style="list-style-type: none"> - Nicht wiederaufladbar - Nicht ins Feuer werfen - Vorschriftsgemäß entsorgen <p>Keine Elektrosigniereinrichtungen verwenden</p> | <p>Battery</p> <ul style="list-style-type: none"> - not rechargeable - do not incinerate - dispose off as prescribed <p>Do not use an electric marking tool</p> | <p>Pile</p> <ul style="list-style-type: none"> - elle ne se recharge pas - ne pas la jeter au feu - s'en débarrasser conformément aux règlements <p>Ne pas utiliser de marqueur électrique</p> | <p>Batteria</p> <ul style="list-style-type: none"> - non ricaricabile - non gettare nel fuoco - smaltire secondo le prescrizioni <p>Non utilizzare penne elettriche per la marcatura</p> |
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| 5. Technische Daten | 5. Technical Data | 5. Caractéristiques techniques | 5. Dati Tecnici |
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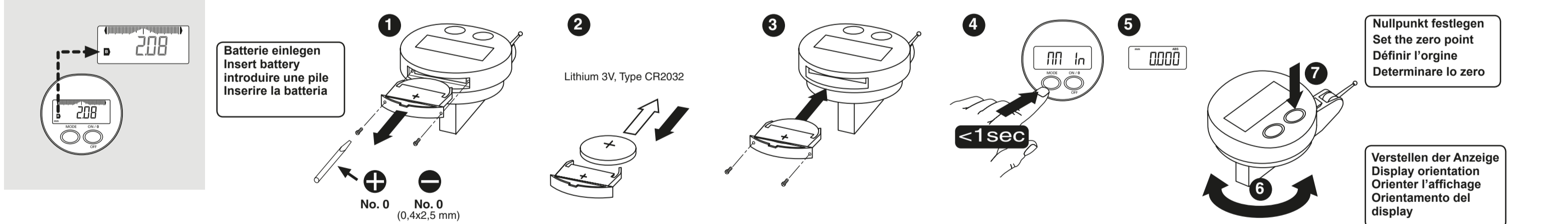
| <p>Induktives Messsystem Batterie Lithium 3V, Typ CR2032, 230 mAh Betriebszeit ca. 3 Jahre (4000 Betriebs-Std./Jahre) Schutzart nach IEC 60529, IP65 (Anzeige)</p> <p>Datenausgang: OPTO RS232C kompatibel über Interface-Kabel mit Optokopplung oder USB-Emulation</p> <p>Betriebstemperatur + 10°C ... + 40°C Lagertemperatur - 10°C ... + 60°C</p> | <p>Inductive measuring system Battery Lithium 3V, type CR2032, 230 mAh Operating time approx. 3 years (4000 working hrs/year) Protection group acc. to IEC 60529, IP65 (Display)</p> <p>Data output: OPTO RS232C compatible, via interface cable with optocoupler or USB emulation</p> <p>Operation temperature + 10°C ... + 40°C Storage temperature - 10°C ... + 60°C</p> | <table border="1"> <tr> <th></th> <th>800 EW</th> <th>800 EWL</th> </tr> <tr> <td>Measuring range</td> <td>0,9 mm / .03"</td> <td>0,5 mm / .02"</td> </tr> <tr> <td>Resolution</td> <td>0,001 mm / .00005"</td> <td>0,001 mm / .00005"</td> </tr> <tr> <td>Error limit f₁</td> <td>10 µm / .0004"</td> <td>10 µm / .0004"</td> </tr> <tr> <td>Total error limit f₂</td> <td>13 µm / .0005"</td> <td>13 µm / .0005"</td> </tr> <tr> <td>Repeatability f₃ (±2s)</td> <td>3 µm / .0001"</td> <td>3 µm / .0001"</td> </tr> <tr> <td>Hysteresis f₄</td> <td>3 µm / .0001"</td> <td>5 µm / .0002"</td> </tr> <tr> <td>Local span of error f₅</td> <td>5 µm / .0002"</td> <td>5 µm / .0002"</td> </tr> <tr> <td>Weight</td> <td>73 gr.</td> <td>75 gr.</td> </tr> <tr> <td>Measuring force (±15%)</td> <td>0,13 N</td> <td>0,07 N</td> </tr> <tr> <td>Friction of measuring insert orientation (±20%)</td> <td>4 N</td> <td>1,5 N</td> </tr> <tr> <td>Max. measuring speed</td> <td>0,05 m/sec</td> <td>0,03 m/sec</td> </tr> <tr> <td>Number of measurements per second</td> <td>9 mes/s</td> <td>9 mes/s</td> </tr> <tr> <td>Measuring unit</td> <td>mm / inch</td> <td>mm / inch</td> </tr> </table> | | 800 EW | 800 EWL | Measuring range | 0,9 mm / .03" | 0,5 mm / .02" | Resolution | 0,001 mm / .00005" | 0,001 mm / .00005" | Error limit f ₁ | 10 µm / .0004" | 10 µm / .0004" | Total error limit f ₂ | 13 µm / .0005" | 13 µm / .0005" | Repeatability f ₃ (±2s) | 3 µm / .0001" | 3 µm / .0001" | Hysteresis f ₄ | 3 µm / .0001" | 5 µm / .0002" | Local span of error f ₅ | 5 µm / .0002" | 5 µm / .0002" | Weight | 73 gr. | 75 gr. | Measuring force (±15%) | 0,13 N | 0,07 N | Friction of measuring insert orientation (±20%) | 4 N | 1,5 N | Max. measuring speed | 0,05 m/sec | 0,03 m/sec | Number of measurements per second | 9 mes/s | 9 mes/s | Measuring unit | mm / inch | mm / inch | <p>Système de mesure inductif Pile Lithium 3V, Type CR2032, 230 mAh Durée de vie de la pile: environ 3 ans soit (4000 h d'opération/an) Type de protection selon IEC 60529, IP65 (Affichage)</p> <p>Sortie de données : OPTO RS232C compatible par câble interface avec un optocoupleur ou USB emulation</p> <p>Température d'utilisation + 10°C ... + 40°C Température de stockage - 10°C ... + 60°C</p> | <p>Sistema di misura induttivo Batteria al litio 3V, tipo CR2032, 230 mAh Durata ca. 3 anni (4000 h. di lavoro/anno) Protezione (secondo IEC 60529) IP65 (Display)</p> <p>Uscita dati: RS232C compatibile tramite cavo optoisolato di interfacciamento oppure USB emulazione</p> <p>Temperatura d'esercizio + 10°C ... + 40°C Temperatura di stoccaggio - 10°C ... + 60°C</p> |
|---|---|---|----------------------------|--------|---------|-----------------|---------------|---------------|------------|--------------------|--------------------|----------------------------|----------------|----------------|----------------------------------|----------------|----------------|------------------------------------|---------------|---------------|---------------------------|---------------|---------------|------------------------------------|---------------|---------------|--------|--------|--------|------------------------|--------|--------|---|-----|-------|----------------------|------------|------------|-----------------------------------|---------|---------|----------------|-----------|-----------|---|---|
| | 800 EW | 800 EWL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measuring range | 0,9 mm / .03" | 0,5 mm / .02" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | 0,001 mm / .00005" | 0,001 mm / .00005" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error limit f ₁ | 10 µm / .0004" | 10 µm / .0004" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total error limit f ₂ | 13 µm / .0005" | 13 µm / .0005" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Repeatability f ₃ (±2s) | 3 µm / .0001" | 3 µm / .0001" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hysteresis f ₄ | 3 µm / .0001" | 5 µm / .0002" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Local span of error f ₅ | 5 µm / .0002" | 5 µm / .0002" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 73 gr. | 75 gr. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measuring force (±15%) | 0,13 N | 0,07 N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Friction of measuring insert orientation (±20%) | 4 N | 1,5 N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. measuring speed | 0,05 m/sec | 0,03 m/sec | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of measurements per second | 9 mes/s | 9 mes/s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measuring unit | mm / inch | mm / inch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bestell-Nr. | Order no. | N° de cde. | Codice | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Messeinsätze | Stylii | Longueur palpeur | Lunghezza tastatore | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Länge der Messeinsätze | Length of the measuring insert | Longueur palpeur à bille | Lunghezza del tastatore | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bestell-Nr. | Order no. | N° de cde. | Codice | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 6. Beschreibung | 6. Description | 6. Description | 6. Descrizione |
|------------------------|-----------------------|-----------------------|-----------------------|

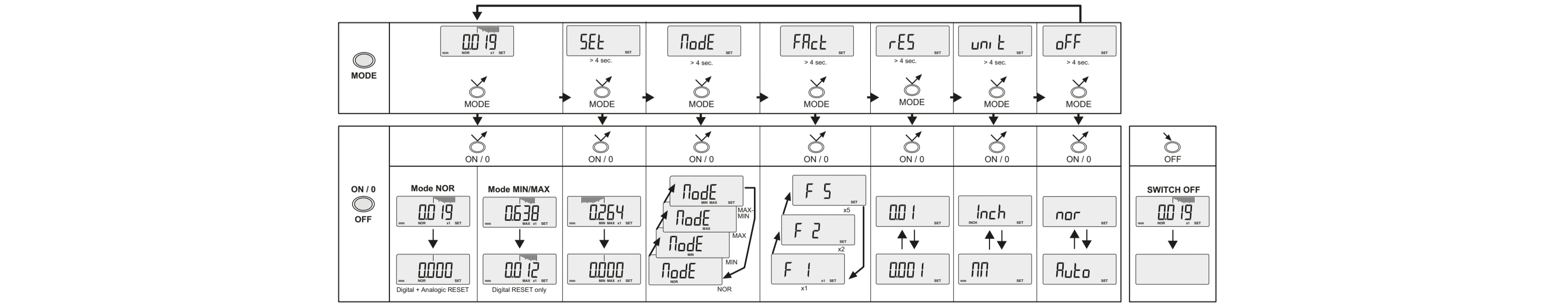
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|---|---|---|---|
| <ol style="list-style-type: none"> 1 MODE-Taste 2 ON / 0, OFF-Taste 3 Multifunktionelle LCD-Anzeige 4 Schwalbenschwanzbefestigung 5 Batteriefach / RS 232-Anschluss 6 Austauschbarer Messeinsatz, M2 7 Displayanzeige der Funktion SET 8 Displayanzeige der Maßeinheit (mm/INCH) 9 Displayanzeige der Funktion (NOR/MIN/MAX/MAX-MIN) 10 Displayanzeige der Teilungsfaktors der Analoganzeige (x1 = 1 Ziffer pro Stufe) 11 Analogskala 12 Anzeige von .00005" 13 Negativ-Zeichen 14 Anzeige von Ende der Batteriebensdauer 15 Displayanzeige der Datenübertragung | <ol style="list-style-type: none"> 1 MODE button 2 ON / 0, OFF button 3 LCD multifunctional display 4 Dovetail clamping 5 Battery compartment / RS 232 connection 6 Interchangeable measuring insert M2 7 SET mode indication 8 Indicates the measuring unit (mm/INCH) 9 Indicates the measuring mode (NOR/MIN/MAX/MAX-MIN) 10 Indicates the analog scale range (x1 = 1 digit per step) 11 Analog scale 12 Display of .00005" 13 Negative sign 14 Indicates the battery life span 15 Indicates data transmission | <ol style="list-style-type: none"> 1 Bouton MODE 2 Bouton ON / 0, OFF 3 affichage multifonctions à cristaux liquides 4 Queues d'aronde de fixation 5 Tiroir pour changement de batterie / connexion RS 232 6 Palpeur à bille, interchange., M2 7 Indicateur de fonction SET 8 Indicateur d'unité de mesure (mm/INCH) 9 Indicateur du mode de mesure (NOR/MIN/MAX/MAX-MIN) 10 Indicateur du facteur d'échelle analogique (x1 = 1 digit par échelon) 11 Echelle analogique 12 Affichage .00005" 13 Signe négatif 14 Indicateur de fin de vie de la batterie 15 Indicateur de transmission de données | <ol style="list-style-type: none"> 1 Tasto MODE 2 Tasto ON / 0, OFF 3 Display LCD multifunzionale 4 Fissaggio a coda di rondine 5 Vano batterie / collegamento RS 232 6 Tastatore intercambiabile, M2 7 Indicazione della funzione SET 8 Indicazione dell'unità di misura (mm/pollici) 9 Indicazione della funzione (NOR/MIN/MAX/MAX-MIN) 10 Indicazione della graduazione della scala analogica (x1 = 1 cifra per graduazione) 11 Scala analogica 12 Indicazione di .00005" 13 Segno negativo 14 Indicazione dell'esaurimento della batteria 15 Indicazione della trasmissione dati |
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| 7. Batterie einlegen, bzw. wechseln | 7. Inserting / changing the battery | 7. Insertion ou changement de pile | 7. Inserimento o Sostituzione batteria |
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| 8. Bedienfunktionen (Schema) | 8. Control function (diagram) | 8. Fonctions de mesure (schémas) | 8. Funzioni di comando (diagramma) |
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| Entsorgungshinweise (DE) | Notes for disposal (EN) | Traitement des déchets (FR) | Note sullo smaltimento (IT) |
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| <p>Lieber Kunde</p> <p>Dieses Gerät enthält eine nicht wieder aufladbare Lithium-Batterie. Ist die Batterie leer, darf Sie nicht im Hausmüll entsorgt werden! Altbatterien enthalten möglicherweise Schadstoffe, die Umwelt und Gesundheit schaden können. Bitte geben Sie die Batterien/Akkus im Handel oder an den Recyclinghöfen der Kommunen ab. Die Rückgabe ist unentgeltlich und gesetzlich vorgeschrieben. Bitte werfen Sie nur entladene Batterien in die aufgestellten Behälter und kleben Sie bei Lithium-Batterien die Pole ab. Die Entnahme der Batterie ist in der Bedienungsanleitung des Gerätes beschrieben. Alle Batterien werden wieder verwertet. So lassen sich wertvolle Rohstoffe wie Eisen, Zink oder Nickel wieder gewinnen. Batterierecycling dient dem Umweltschutz.</p> | <p>Dear Customer</p> <p>This measuring instrument contains a non-rechargeable lithium battery. Spent batteries may not be disposed of in household waste. Waste batteries contain hazardous substances which can be harmful to the environment and to human health. Waste batteries and accumulators must either be returned to an outlet where batteries and accumulators are sold, or taken to a municipal collection point. There is a legal obligation on suppliers to take back batteries free of charge. Please dispose of discharged batteries only, in the collection containers provided. When disposing of lithium batteries please tape over the poles. The removal of batteries is described in the instrument's operating instructions. All batteries can be recycled. Valuable raw materials such as iron, zinc and nickel can be recovered in this way, thereby helping to protect the environment.</p> | <p>Cher client</p> <p>Cet appareil contient une pile au lithium non rechargeable. Quand la pile est déchargée, elle ne doit pas être jetée dans les ordures ménagères ! Les piles usagées peuvent contenir des substances dangereuses pour l'environnement et la santé. Rapporter les piles/batteries usagées dans les commerces ou dans les centres de collecte de votre commune. Le retour est gratuit et prévu par la loi. Ne jeter que des piles usagées dans les bacs prévus à cet effet et coller les pôles pour les piles au lithium. Le guide de l'utilisateur de l'appareil explique comment sortir la pile de son compartiment. Toutes les piles sont recyclées. Ceci permet de récupérer des matériaux de valeur tels que le fer, le zinc ou le nickel. Le recyclage des piles préserve l'environnement.</p> | <p>Gentile cliente</p> <p>Questo dispositivo contiene una batteria al litio non ricaricabile. Una volta scarica, la batteria non può essere gettata nei rifiuti domestici. Le batterie esauste possono contenere sostanze nocive per l'ambiente e la salute. Si prega quindi di consegnare le batterie/gli accumulatori al proprio rivenditore o presso le centrali di riciclaggio municipali. Il conferimento è gratuito e previsto a norma di legge. Si prega di gettare negli appositi contenitori esclusivamente batterie esauste e di isolare i poli delle batterie al litio. La modalità di rimozione della batteria sono descritte nel manuale di istruzioni del dispositivo. Tutte le batterie vengono riciclate. In questo modo è possibile recuperare materie prime preziose come ferro, zinco o nichel. Il riciclaggio delle batterie è utile per la protezione dell'ambiente.</p> |
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