

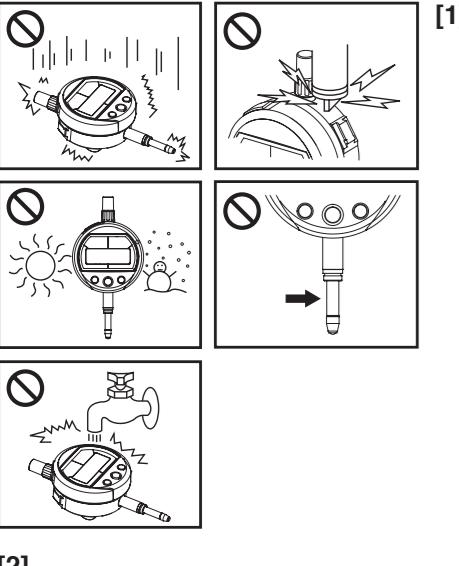
## ABS ソーラ式デジマチックインジケーター

## ABSOLUTE Solar Digimatic Messuhr

## Indicador Digimatic ABSOLUTE Solar

## ABSOLUTE Solar Digimatic Meetklok

## Comparateur solaire ABSOLUTE Digimatic



**安全に関する注意**  
商品のご使用に当たっては、記載の仕様・機能・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ると安全性を損なう恐れがあります。

**漏れ移転による注意**

本製品は「国際及び外貿貿易」の規格対象品です。本製品その他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。

**ヒンズーによる Exportationshinweise**  
Sie verpflichten sich, keine Handelsmautauflagen, die direkt oder indirekt, vielleiicht aus einer anderen Landes oder technologische Daten auszuführen.

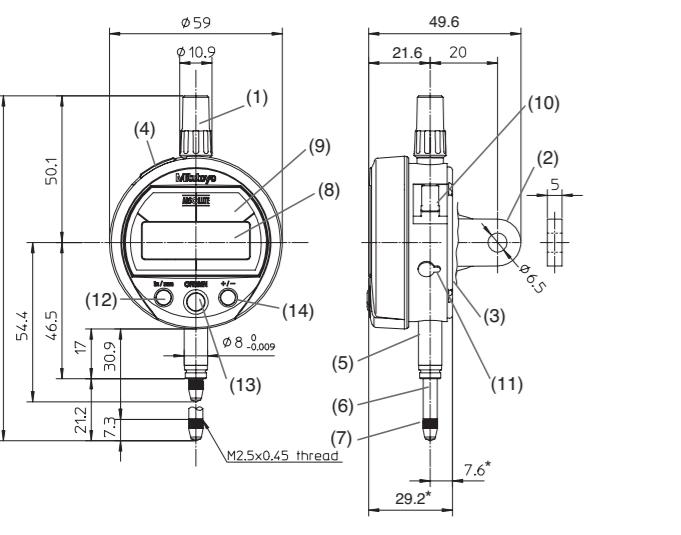
**Notas sobre la ley de exportación**  
Usted debe de aceptar la ley de acuerdo a que directa o indirectamente, vielleiicht cualquier ley o regulación de Japón o su país, o cualquier otro tratado internacional, sobre exportación o re-exportación de bienes de tecnología.

**Veiligheidsmaatregelen**  
Om de veiligheid van de gebruiker te garanderen, dient dit instrument te worden gebruikt in overeenstemming met de instructies en specificaties in deze gebruiksaanwijzing.

**Precauciones de seguridad**  
Para garantir la seguridad del operador, utilice este instrumento de acuerdo con las directrices y especificaciones proporcionadas en este Manual de instrucciones.

**Notes sur les règles d'exportation**  
Vous devez accepter de ne pas appliquer une loi qui directement ou indirectement, violer les lois et réglementations du Japon ou de votre pays, ou de tout autre traité international, sur l'exportation ou le ré-exportation de produits de technologie.

[2] - 543-500/501/505/506



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# ABSOLUTE Digimatic Solar Indicator

# Comparatore Digimatic ABSOLUTE SOLAR

# ABSOLUTE Solar Digimatic Mätr

# ABS 솔라식 디지매틱 인디케이터

# ABS 太阳能数显千分表

# ABS 太阳能液晶指示量錶

**Safety Precautions**

To ensure operator safety, use this instrument in conformance with the directions and specifications given in this User's Manual.

**Export Control Compliance**

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



**Warning**

The liquid crystal display and large capacity capacitor used in this indicator contain stimulant materials. If any liquid material comes into contact with your eye or skin accidentally, immediately rinse with clean water. If it gets into your mouth, immediately rinse out your mouth, drink a large amount of water, then vomit it out. In either case see to consult a physician.

**Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)**

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. To reduce the environmental impact of WEEE (Waste Electrical and Electronic Equipment) and minimize the volume of WEEE entering landfills, please reuse and recycle.

For further information, contact the proper distributor or the manufacturer.

**Cautions on use**

Observe the following precautions to avoid instrument failure or malfunction.

**IMPORTANT**

Never copine or touch the solar cells. Never rub the solar cells with sharp objects.

Do not strike the instrument or allow it to be struck. Do not drop it or apply excessive force to it.

Do not disassemble and modify this indicator.

To clean the indicator, use a soft cloth soaked in a neutral detergent. Do not use any organic solvent (thinner or benzene). It may deform or damage the indicator.

The contaminated spindle may cause malfunctions. Wipe off them with a cloth damped with alcohol.

Do not use an electric penning or other such devices on the micrometer. It may damage the instrument.

**[1] Usage Environment (Illumination Intensity)**

Use the indicator in an environment where the illumination intensity is greater than 40 lx. If the illumination intensity is insufficient for 40lx, the read-out may not be visible.

For guidelines on the illumination intensity of fluorescent tubes, refer to figure [1]. However, it may become less illumination intensity, depending on the position of the indicator.

**TIPS**

Even if the illumination environment is temporally less than 40 lx, normal measuring can be performed by charging the large capacity capacitor that comes equipped with this indicator.

In an illumination intensity of less than 500 lx, approximately 90 minutes of measuring (when charged) can be accomplished, and in less than 40 lx, the device can be used for approximately 210 minutes.

**[2] Dimensions and Nomenclature**
**1) Dimensions of each part**

• **A-D** is the symbol for American Gage Design (AGD) and represents a dimension required by AGD Group 2 in ANSI standards. (Applied in series 543-502 / 507.)  
• An asterisk (\*) represents a dimension of the Flat Back type. No dimension marks a dimension of the Back with type and a common dimension of both types.

**2) Nomenclature**

(1) LCD	(2) Lug back	(3) Flat back	(4) Output connector	(5) Stem
(6) Screw	(7) Contact point	(8) Display unit (LCD)	(9) Solar cell	
(10) Lever mounting position	(11) Release hole	(12) Immersion key (only for series 543-501/502/506/507)	(13) ORIGIN key	(14) +/-key

**IMPORTANT**

Do not remove the display unit of this indicator. Doing so may damage the display unit.

**[3] Setting Up**

Refer to figure [3].

**1) Mounting Lifting Lever (Optional/Part No. 21EA198 (mm), 21EA199 (mm))**

Lifting lever (optional) is available for this instrument.

1. Rotate the cap counter-clockwise to remove it from the instrument.

2. Hold the spindle with a pencil with a rig to prevent rotation. Put, fissare la leva di sollevamento nella parte di montaggio della leva (a coda di rondine) mentre si inserisce il perno fornito superiore alla vite sullo stesso.

**IMPORTANT**

Consultare la voce IMPORTANTE nella sezione 2) Montaggio della manopola di sollevamento.

**[4] Installation**

Mount the indicator on the base plate (Optional/Part No. 21EA105 (mm), 21EA150 (mm))

**[5] Mounting Lifting Knob (Optional/Part No. 21EA105 (mm), 21EA150 (mm))**

1. Remove the lifting knob (optional) to remove it from the instrument.  
2. Hold the spindle with a pencil while protecting it with a rig to prevent rotation, remove the screw (M2.5 or No.4-48UNF) at the top of the spindle.

**IMPORTANT**

Remove the screw from the top of the spindle.

3. Attach the lifting knob to the top of the spindle.

**IMPORTANT**

Consultare la voce IMPORTANTE nella sezione 2) Montaggio della manopola di sollevamento.

**[6] Dimensions and nomenclature**
**1) Dimensions of each part**

• **A-D** is the symbol for American Gage Design (AGD) and represents a dimension required by AGD Group 2 in ANSI standards. (Applied in series 543-502 / 507.)  
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**2) Nomenclature**

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**IMPORTANT**

Do not remove the display unit of this indicator. Doing so may damage the display unit.

**[7] Function and Operation Procedure**

When illumination intensity or charge is insufficient, the reaction after key operation may become slow, but this is not a malfunction.

**1) Origin (Zero Point) Setting**

Before using this indicator for the first time, be sure to set up the origin of the indicator. Otherwise, the error sign ("E") at the LSD may appear, resulting in incorrect measurements.

Set up the origin of the indicator, cap, taking care to prevent loss.

• When attaching the cap, screw it into the hole.

• When the release is not mounted, be sure to keep the cap inserted.

• Moving the spindle or the indicator may cause a shock to the hole may cause instrument malfunction.

• If the spindle is stopped or when the release is not mounted, be sure to attach the removed screw to the top of the spindle.

**4) Mounting this indicator**

If mounting on a fixture or a frame, use the stem or lug to clamp the indicator. To clamp it use the stem, use the slotted holder having a ø8 mm or ø12 mm hole with G7 (4.005 mm to 0.02 mm).

**IMPORTANT**

• Avoid using a lock nut, when the indicator is clamped.

• Use the lock nut provided with the indicator.

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• When the indicator is clamped, the spindle may stop.

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