

Pressure transmitter model A-10	GB
Druckmessumformer Typ A-10	D
Transmetteur de pression type A-10	F
Transmisor de presión modelo A-10	E



Pressure transmitter model A-10



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 WIKA® ist eine geschützte Marke in verschiedenen Ländern.

Prior to starting any work, read the operating instructions!  
 Keep for later use!

Vor Beginn aller Arbeiten Betriebsanleitung lesen!  
 Zum späteren Gebrauch aufbewahren!

Lire le mode d'emploi avant de commencer toute opération !  
 A conserver pour une utilisation ultérieure !

¡Leer el manual de instrucciones antes de comenzar cualquier trabajo!  
 ¡Guardar el manual para una eventual consulta posterior!



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Declarations of conformity can be found online at [www.wika.com](http://www.wika.com).



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# 1. General information

## 1. General information

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- The pressure transmitter described in the operating instructions has been designed and manufactured using state-of-the-art technology. All components are subject to stringent quality and environmental criteria during production. Our management systems are certified to ISO 9001 and ISO 14001.
- These operating instructions contain important information on handling the pressure transmitter. Working safely requires that all safety instructions and work instructions are observed.
- Observe the relevant local accident prevention regulations and general safety regulations for the pressure transmitter's range of use.
- The operating instructions are part of the product and must be kept in the immediate vicinity of the pressure transmitter and readily accessible to skilled personnel at any time.
- Skilled personnel must have carefully read and understood the operating instructions prior to beginning any work.
- The manufacturer's liability is void in the case of any damage caused by using the product contrary to its intended use, non-compliance with these operating instructions, assignment of insufficiently qualified skilled personnel or unauthorised modifications to the pressure transmitter.
- The general terms and conditions contained in the sales documentation shall apply.
- Subject to technical modifications.
- Further information:
  - Internet address:
  - Relevant data sheet:
  - Application consultant:

www.wika.com

PE 81.60

Tel.: (+49) 9372/132-8976

E-Mail: support-tronic@wika.de



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# 1. General information

## Explanation of symbols



### **WARNING!**

... indicates a potentially dangerous situation which can result in serious injury or death if not avoided.



### **CAUTION!**

... indicates a potentially dangerous situation which can result in light injuries or damage to the equipment or the environment if not avoided.



### **Information**

... points out useful tips, recommendations and information for efficient and trouble-free operation.



### **CAUTION!**

... indicates a potentially dangerous situation that can result in burns, caused by hot surfaces or liquids, if not avoided.

## Abbreviations

2-wire	Two of the connection lines are used for the power supply. The measurement signal also provides the supply current.
3-wire	Two of the connection lines are used for the power supply. One connection line is used for the measurement signal.
U <sub>B</sub>	Positive power terminal
0V	Negative power terminal
S <sub>+</sub>	Positive measurement terminal



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## 2. Safety

### 2. Safety



#### **WARNING!**

Before installation, commissioning and operation, ensure that the appropriate pressure transmitter has been selected in terms of measuring range, design and specific measuring conditions.

Non-observance can result in serious injury and/or damage to the equipment.



#### **WARNING!**

Open the connections only after the system has been depressurised.



Further important safety instructions can be found in the individual chapters of these operating instructions.

#### **2.1 Intended use**

The pressure transmitter is used to convert pressure into an electrical signal.

The pressure transmitter has been designed and built solely for the intended use described here and may only be used accordingly.

The technical specifications contained in these operating instructions must be observed. Improper handling or operation of the instrument outside of its technical specifications requires the instrument to be taken out of service immediately and inspected by an authorised WIKA service engineer.

The manufacturer shall not be liable for claims of any type based on operation contrary to the intended use.

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## 2. Safety

### 2.2 Personnel qualification



#### **WARNING!**

#### **Risk of injury if qualification is insufficient!**

Improper handling can result in considerable injury and damage to equipment.

The activities described in these operating instructions may only be carried out by skilled personnel who have the qualifications described below.

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### Skilled personnel

Skilled personnel are understood to be personnel who, based on their technical training, knowledge of measurement and control technology and on their experience and knowledge of country-specific regulations, current standards and directives, are capable of carrying out the work described and independently recognising potential hazards.

Special operating conditions require further appropriate knowledge, e.g. of aggressive media.

### 2.3 Special hazards



#### **WARNING!**

For hazardous media such as oxygen, acetylene, flammable or toxic gases or liquids, and refrigeration plants, compressors, etc., in addition to all standard regulations, the appropriate existing codes or regulations must also be followed.



#### **WARNING!**

Residual media in dismantled pressure transmitters can result in a risk to persons, the environment and equipment.

Take sufficient precautionary measures.

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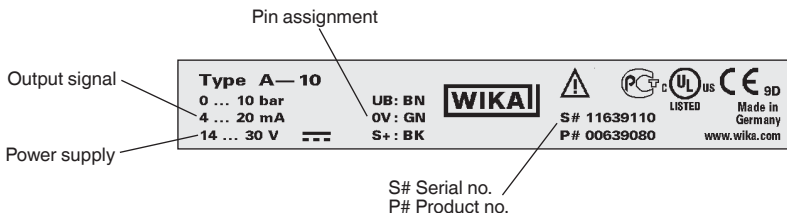
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## 2. Safety

### 2.4 Labelling / safety marks

#### Product label

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If the serial number becomes illegible (e.g. due to mechanical damage or overpainting), traceability will no longer be possible.

#### Explanation of symbols



**General danger symbol**



**cULus, Underwriters Laboratories Inc.®**

The instrument was inspected in accordance with the applicable US standards and certified by UL.  
Furthermore, instruments bearing this mark comply with the applicable Canadian standards on safety (including explosion protection).



**GOST, Gossudarstwenny Standart (Государственный Стандарт)**

GOST-R (mark)

Instruments bearing this mark comply with the applicable Russian national safety regulations (Russian Federation).

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## 2. Safety / 3. Specifications



**CE, Communauté Européenne**

Instruments bearing this mark comply with the relevant European directives.

— — — Voltage DC

GB

### 3. Specifications

Specifications	Model A-10									
Measuring range	bar	1	1.6	2.5	4	6	10	16	25	
Overpressure safety	bar	2	3.2	5	8	12	20	32	50	
Burst pressure	bar	5	10	10	17	34	34	100	100	
Measuring range	bar	40	60	100	160	250	400	600		
Overpressure safety	bar	80	120	200	320	500	800	1200		
Burst pressure	bar	400	550	800	1000	1200	1700	2400		
	MPa and kg/cm <sup>2</sup> also available {Absolute pressure: 0 ... 1 bar to 0 ... 25 bar} {+/- Measuring range: -1 ... 0 bar to -1 ... 24 bar}									
Measuring range	psi	15	25	30	50	100	160	200	300	
Overpressure safety	psi	30	60	60	100	200	290	400	600	
Burst pressure	psi	75	150	150	250	500	500	1500	1500	
Measuring range	psi	500	1000	1500	2000	3000	5000	10000		
Overpressure safety	psi	1000	1740	2900	4000	6000	10000	17400		
Burst pressure	psi	2500	7975	11600	14500	17400	24650	34800		
	{Absolute pressure: 0 ... 15 psi to 0 ... 300 psi} {+/- Measuring range: -30 inHg ... 0 psi to -30 inHg ... 300 psi}									
Vacuum resistance		from 10 bar								
Service life		10 <sup>7</sup> cycles								



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### 3. Specifications

#### Specifications Model A-10

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Material																
<ul style="list-style-type: none"> <li>■ Wetted parts</li> </ul>																
- Process connection		Stainless steel 316L														
- Pressure sensor		Stainless steel, 316L (from 0 ... 10 bar rel., 13-8 PH)														
- Internal transmission fluid		Silicone oil (only for measuring ranges < 0 ... 10 bar and ≤ 0 ... 25 bar abs)														
■ Case		Stainless steel 316L														
Power supply $U_B$	DC	8 ... 30 V { 8 ... 35 V <sup>1)</sup> 14 ... 30 V { 14 ... 35 V } with 0 ... 10 V output 5 V ± 10 % with 0.5 ... 4.5 V ratiometric output														
Output signal and max. permissible resistive load $R_A$	$R_A$ in Ohms	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">4 ... 20 mA, 2-wire:</td> <td style="text-align: right;"><math>R_A \leq (U_B - 8 V) / 0.02 A</math></td> </tr> <tr> <td>0 ... 10 V, 3-wire:</td> <td style="text-align: right;"><math>R_A &gt; 10 k</math></td> </tr> <tr> <td>0 ... 5 V, 3-wire:</td> <td style="text-align: right;"><math>R_A &gt; 5 k</math></td> </tr> <tr> <td>1 ... 5 V, 3-wire:</td> <td style="text-align: right;"><math>R_A &gt; 5 k</math></td> </tr> <tr> <td>0.5 ... 4.5 V, 3-wire:</td> <td style="text-align: right;"><math>R_A &gt; 4.5 k</math></td> </tr> <tr> <td>0.5 ... 4.5 V, ratiometric <math>R_A &gt; 4.5 k</math></td> <td style="text-align: right;"><math>R_A &gt; 4.5 k</math></td> </tr> <tr> <td colspan="2">(Other output signals on request)</td> </tr> </table>	4 ... 20 mA, 2-wire:	$R_A \leq (U_B - 8 V) / 0.02 A$	0 ... 10 V, 3-wire:	$R_A > 10 k$	0 ... 5 V, 3-wire:	$R_A > 5 k$	1 ... 5 V, 3-wire:	$R_A > 5 k$	0.5 ... 4.5 V, 3-wire:	$R_A > 4.5 k$	0.5 ... 4.5 V, ratiometric $R_A > 4.5 k$	$R_A > 4.5 k$	(Other output signals on request)	
4 ... 20 mA, 2-wire:	$R_A \leq (U_B - 8 V) / 0.02 A$															
0 ... 10 V, 3-wire:	$R_A > 10 k$															
0 ... 5 V, 3-wire:	$R_A > 5 k$															
1 ... 5 V, 3-wire:	$R_A > 5 k$															
0.5 ... 4.5 V, 3-wire:	$R_A > 4.5 k$															
0.5 ... 4.5 V, ratiometric $R_A > 4.5 k$	$R_A > 4.5 k$															
(Other output signals on request)																
Response time	ms	< 4														
Current supply	mA	Signal current, max. 25 for current output max. 8 for voltage output														
Insulation voltage <sup>2)</sup>	DC	500 V														
Non-linearity	% of span	≤ ± 0.25 (BFSL) per IEC 61298-2 ≤ ± 0.5 (BFSL) per IEC 61298-2														
Accuracy <sup>3)</sup>	% of span	≤ ± 0.5 (with non-linearity 0.25 %) ≤ ± 0.6 (with non-linearity 0.25 % and 0 ... 5 V output) ≤ ± 1.0 (with non-linearity 0.5 %)														
Zero error for the zero signal	% of span	≤ 0.15 typ., ≤ 0.4 max. (with non-linearity 0.25 %) ≤ 0.5 typ., ≤ 0.8 max. (with non-linearity 0.5 %)														
Non-repeatability	% of span	≤ 0.1														
Long-term drift	% of span	≤ 0.1 per IEC 61298-2														
Signal noise	%	≤ 0.5														



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## 3. Specifications

### Specifications

### Model A-10

Permissible temperature ranges		
■ Medium	°C	0 ... +80 {-30 ... +100}
■ Ambient	°C	0 ... +80 {-30 ... +100}
■ Storage	°C	-20 ... +80 {-30 ... +100}
Rated temperature range	°C	0 ... +80
Temperature error in rated temperature range	% of span	≤ 1.0 typ., ≤ 2.5 max.
Approvals		cULus, GOST
CE conformity		
■ Pressure equipment directive		97/23/EC
■ EMC directive		2004/108/EC, EN 61326 Emission (Group 1, Class B) and Immunity (industrial locations)
Shock resistance	g	500 per IEC 60068-2-27 (mechanical shock)
Vibration resistance	g	10 {20} per IEC 60068-2-6 (vibration under resonance)
Overvoltage protection	DC	32 V; 36 V with 4 ... 20 mA
Short-circuit resistance		S+ vs. 0V
Reverse polarity protection		U <sub>B</sub> vs. 0V
Reference conditions		per IEC 61298-1
■ Operating conditions		for internal and external operation
■ Relative humidity	%	up to 90
Weight	g	approx. 80

1) Not possible with non-linearity 0.25 % BFSL and 4 ... 20 mA

2) The power supply for the pressure transmitter must be made via an energy-limited electrical circuit per section 9.3 of UL / EN / IEC 61010-1, or an LPS to UL / EN / IEC 60950-1, or Class 2 per UL1310/UL1585 (NEC or CEC). The power supply must be suitable for operation above 2,000 m should the pressure transmitter be used at this altitude.

3) Including non-linearity, hysteresis, zero-point and full scale value deviations (corresponds to measuring error per IEC 61298-2). Calibrated in vertical mounting position with process connection facing downwards.

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## 3. Specifications ... 5. Transport, packaging and storage

For special model numbers, e.g. A-10000, please note the specifications stated on the delivery note.

For further specifications see WIKA data sheet PE 81.60 and the order documentation.



When designing the system, please note that the values given (e.g. burst pressure, overpressure safety) are dependent upon the material, thread and gasket used.

## 4. Design and function

### 4.1 Description

By means of a sensor element and by applying power, the prevailing pressure is converted into an amplified standardised electrical signal via the deformation of a membrane. This electrical signal varies in proportion to the pressure and can be evaluated accordingly.

### 4.2 Scope of delivery

Cross-check the scope of delivery with the delivery note.

## 5. Transport, packaging and storage

### 5.1 Transport

Check instrument for any damage that may have been caused during transportation. Obvious damage must be reported immediately.

### 5.2 Packaging

Do not remove packaging until just before mounting.

Keep the packaging as it will provide optimum protection during transport (e.g. change in installation site, sending for repair).



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## 5. Transport, packaging and storage / 6. Commissioning, operation

### 5.3 Storage

#### Permissible conditions at the place of storage:

- Storage temperature: -20 ... +80 °C
- Humidity: 45 ... 75 % relative humidity (no condensation)



#### WARNING!

Before storing the pressure transmitter (following operation), remove any residual media. This is of particular importance if the medium is hazardous to health, e.g. caustic, toxic, carcinogenic, radioactive, etc...

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## 6. Commissioning, operation



Required tool: SW 27 open-ended spanner, screwdriver



#### CAUTION!

Prior to commissioning, the pressure transmitter must be subjected to a visual inspection.

- Leaking fluid is indicative of damage.
- Only use the pressure transmitter if it is in perfect condition with respect to safety.

#### Making the mechanical connection

- For model A-10 with parallel thread, the sealing ring is included in the delivery.
- During mounting, make sure that the sealing faces at the pressure transmitter and the measuring point are clean and undamaged.
- Only ever screw in, or unscrew, the instrument via the spanner-flats and to the prescribed torque using an appropriate tool. The correct torque depends on the dimensions of the process connection and the gasket used (form/material). When screwing in or unscrewing the pressure transmitter, do not use the housing for purchase.
- When screwing in, do not cross the threads.
- For information on tapped holes and tapping scales, see Technical Information IN 00.14 at [www.wika.com](http://www.wika.com).



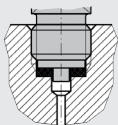
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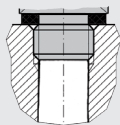
## 6. Commissioning, operation

### Types of sealing

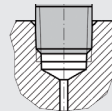
per EN 837



per DIN 3852-E



NPT, R and PT



Self-sealing pipe threads



For further information on seals see WIKA data sheet AC 09.08 or under [www.wika.com](http://www.wika.com).

### Making the electrical connection

- The instrument must be earthed via the process connection.
- The power supply for the pressure transmitter must be made via an energy-limited electrical circuit per section 9.3 of UL / EN / IEC 61010-1, or an LPS to UL / EN / IEC 60950-1, or Class 2 per UL1310/UL1585 (NEC or CEC). The power supply must be suitable for operation above 2.000 m should the pressure transmitter be used at this altitude.
- Select a cable diameter that matches the cable gland of the plug. Make sure that the cable gland of the mounted plug has a tight fit and that the seals are present and undamaged. Tighten the threaded connection and check that the seal is correctly seated, in order to ensure a tight seal.
- For cable outlets, make sure that no moisture enters at the cable end.

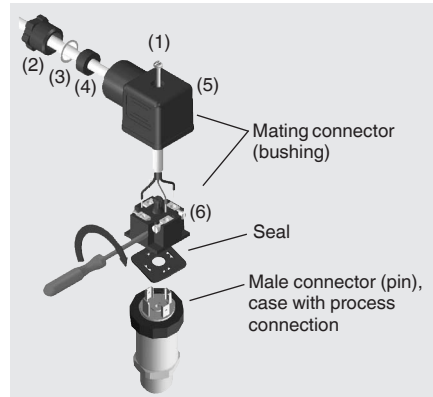
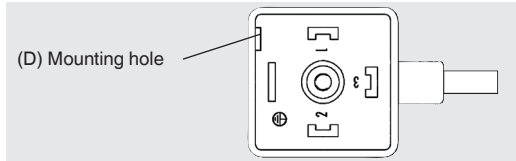
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## 6. Commissioning, operation

### Fitting a DIN 175301-803 angular connector



1. Loosen the screw (1).
2. Loosen the cable gland (2).
3. Pull the angle housing (5), with the terminal block (6) inside, away from the instrument.
4. Via the mounting hole (D), lever the terminal block (6) out of the angle housing (5). Do not try to push the terminal block (6) out using the screw hole (1) or the cable gland (2), otherwise the sealing of the angle housing could be damaged.
5. Select a conductor with an outside diameter matched to the angle housing's cable gland. Slide the cable through the cable gland (2), washer (3), gland seal (4) and angle housing (5).
6. Connect the cable ends to the appropriate screw terminals on the terminal block (6) (see table "Electrical connections").
7. Press the terminal block (6) back into the angle housing (5).
8. Tighten the cable gland (2) around the cable. Make sure that the seals are not damaged and that the cable gland and seals are assembled correctly in order to ensure ingress protection.
9. Place the flat, square gasket over the pressure transmitter's connection pins.
10. Slide the terminal block (6) onto the pressure transmitter's connection pins.
11. Secure the angle housing (5) and terminal block (6) to the pressure transmitter with the screw (1).

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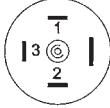


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## 6. Commissioning, operation

### Electrical connections

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Description	Angular connector DIN 175301-803 A	Angular connector DIN 175301-803 C
		
2-wire	$U_B = 1$   $0V = 2$	$U_B = 1$   $0V = 2$
3-wire	$U_B = 1$   $0V = 2$   $S_+ = 3$	$U_B = 1$   $0V = 2$   $S_+ = 3$
Wire cross-section	to a max. 1.5 mm <sup>2</sup>	to a max. 0.75 mm <sup>2</sup>
Cable diameter	6 ... 8 mm	4.5 ... 6 mm
Ingress protection to IEC 60529	IP 65	IP 65
	The stated ingress protection only applies when plugged in using mating connectors that have the appropriate ingress protection.	

### Electrical connections

Description	Circular connector M12 x 1, 4-pin	Cable outlet (PUR, unshielded)
		
2-wire	$U_B = 1$   $0V = 3$	$U_B = \text{brown}$   $0V = \text{blue}$
3-wire	$U_B = 1$   $0V = 3$   $S_+ = 4$	$U_B = \text{brown}$   $0V = \text{blue}$   $S_+ = \text{black}$
Wire cross-section	-	3 x 0.34 mm <sup>2</sup>
Cable diameter	-	4 mm
Ingress protection to IEC 60529	IP 67	IP 67
	The stated ingress protection only applies when plugged in using mating connectors that have the appropriate ingress protection.	

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## 6. Commissioning, operation / 7. Maintenance and cleaning

### Functional check



The output signal must be proportional to the prevailing pressure. If this is not the case, this may indicate a damaged membrane. In this case, see chapter "8. Faults".

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#### WARNING!

- Only open the connections once the system has been depressurised
- Observe the working conditions per chapter "3. Specifications".
- Always operate the pressure transmitter within the overpressure safety range.



#### WARNING!

Upon contact with pressure transmitter, please note that the surfaces of the device components can become hot in operation.

## 7. Maintenance and cleaning

### 7.1 Maintenance

This instrument is maintenance-free.

Repairs must only be carried out by the manufacturer.

### 7.2 Cleaning



#### CAUTION!

- Before cleaning, correctly disconnect the instrument from the pressure supply, switch it off and disconnect it from the mains.
- Clean the instrument with a moist cloth.
- Wash or clean the dismantled instrument before returning it in order to protect personnel and the environment from exposure to residual media.
- Residual media in dismantled instruments can result in a risk to persons, the environment and equipment. Take sufficient precautionary measures.
- Do not use any pointed objects for cleaning, since the diaphragm of the process connection must not be damaged.

## 7. Maintenance and cleaning / 8. Faults



For information on returning the instrument see chapter "9.2 Return".

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### 8. Faults

Firstly, ensure that there is no residual pressure (open valves / ball valves etc.) and that the correct power supply and the correct wiring method (2-wire / 3-wire) has been selected.

Faults	Causes	Measures
No output signal	Cable break	Check the through drilling
Deviating zero point signal	Overpressure safety exceeded	Observe the permissible overpressure safety (see chapter "3. Specifications")
Deviating zero point signal	Too high / low working temperature	Observe the permissible temperatures (see chapter "3. Specifications")
Constant output signal upon change in pressure	Mechanical overload caused by overpressure	Replace instrument; if it fails repeatedly, contact the manufacturer
Signal span too small	Mechanical overload caused by overpressure	Replace instrument; if it fails repeatedly, contact the manufacturer
Signal span varies	EMC interference sources in the environment; for example, frequency converter	Screen instrument; cable screening; remove source of interference
Signal span varies / inaccurate	Too high / low working temperature	Observe the permissible temperatures (see chapter "3. Specifications")
Signal span drops / too small	Signal span drops / too small	Contact manufacturer and replace instrument

If complaint is unjustified, we will charge you the complaint processing fees



#### CAUTION!

If deficiencies cannot be eliminated by means of the measures listed above, shut down the instrument immediately, and ensure that pressure and/or signal are no longer present, and secure the instrument from being put back into operation inadvertently. In this case, contact the manufacturer. If a return is needed, please follow the instructions given in chapter „9.2 Return“.

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## 9. Dismounting, return and disposal

### 9. Dismounting, return and disposal



#### **WARNING!**

Residual media in dismantled pressure transmitters can result in a risk to persons, the environment and equipment. Take sufficient precautionary measures.

GB

#### **9.1 Dismounting**

Only disconnect the pressure transmitter once the system has been depressurised!

#### **9.2 Return**



#### **WARNING!**

##### **Absolutely observe when shipping the pressure transmitter:**

All pressure transmitters delivered to WIKA must be free from any kind of hazardous substances (acids, leachate, solutions, etc.).

When returning the pressure transmitter, use the original packaging or a suitable transport package.

Enclose the completed returns form with the pressure transmitter.



The return form is available on the internet:

**[www.wika.com](http://www.wika.com) / Service / Return**

#### **9.3 Disposal**

Incorrect disposal can put the environment at risk.



Dispose of instrument components and packaging materials in an environmentally compatible way and in accordance with the country-specific waste disposal regulations.



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<b>EG-Konformitätserklärung</b>	<b>EC Declaration of Conformity</b>
<b>Dokument Nr.:</b> 11270519.03	<b>Document No.:</b> 11270519.03
Wir erklären in alleiniger Verantwortung, dass die mit CE gekennzeichneten Produkte	We declare under our sole responsibility that the CE marked products
<b>Typ:</b>  A-10	<b>Model:</b>  A-10
<b>Beschreibung:</b>  Druckmessumformer für allgemeine industrielle Anwendungen	<b>Description:</b>  Pressure transmitter for general industrial applications
gemäß gültigem Datenblatt:  PE 81.60	according to the valid data sheet:  PE 81.60
die grundlegenden Schutzanforderungen der folgenden Richtlinie(n) erfüllen:	are in conformity with the essential protection requirements of the directive(s)
2004/108/EG (EMV) 97/23/EG (DGRL) <sup>(1)</sup>	2004/108/EC (EMC) 97/23/EC (PED) <sup>(1)</sup>
Die Geräte wurden entsprechend den folgenden Normen geprüft:	The devices have been tested according to the following standards:
EN 61326-1:2006 EN 61326-2-3:2006	EN 61326-1:2006 EN 61326-2-3:2006
<sup>(1)</sup> PS > 200 bar; Modul A, druckhaltendes Ausrüstungsteil	<sup>(1)</sup> PS > 200 bar; Module A, pressure accessory
Unterszeichnet für und im Namen von / Signed for and on behalf of	
<b>WIKA Alexander Wiegand SE &amp; Co. KG</b>	
Klingenberg, 2011-09-20	
Geschäftsbereich / Company division: TRONIC	Qualitätsmanagement / Quality management: TRONIC
 Stefan Richter	 Steffen Schlesiona
Unterschrift, autorisiert durch das Unternehmen	Signature authorized by the company
WIKA Alexander Wiegand SE & Co. KG Alexander-Wiegand-Strasse 30 63111 Klingenberg Germany	Komplementär: WIKA International Str. 10, 48159 Ammerlath, Nordrhein-Westfalen, D-48555 Vorstand: Alexander Wiegand Vorstand: WIKA AG, Klingenberg, D. Max Egl.



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