

# Diagnostix™

**Otoscope**

**Coax Ophthalmoscope**

**Dermascope**

**Throat Illuminator**

**Power Handles**



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Instruction Manual

**Questions?**

**Call ADC toll free:**

**1-800-232-2670**

**ADC**<sup>®</sup>  
AMERICAN DIAGNOSTIC CORPORATION

# Diagnostix™ EENT Instruments Table of Contents

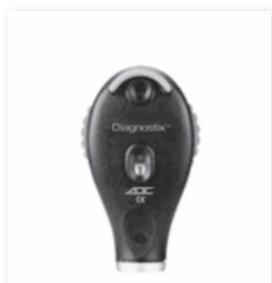
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Diagnostix™  
Otoscope



Diagnostix™ PMV  
Otoscope



Diagnostix™  
Coax Ophthalmoscope



Diagnostix™ Coax Plus  
Ophthalmoscope



Diagnostix™  
Dermoscope



Diagnostix™  
Throat Illuminator

## 1. A SPECIAL THANK YOU

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Congratulations on your purchase of an ADC® Diagnostix™ Physical Exam instrument.

ADC® professional diagnostic products are the instruments of choice where accuracy and dependability are critical.

This feature rich instrument was designed to simplify physical exams and non-invasive diagnostics, and with proper use and care these instruments will provide many years of dependable service.

Read this booklet thoroughly before attempting to use your new ADC® Diagnostix™ EENT instrument.

## 2. INTRODUCTION - INTENDED USE

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These instruments are designed to facilitate examination of the eye, ear, nose, throat, and skin.

If you have any questions call our toll-free number or visit our website.

**Note:** Only use ADC® instruments and accessories to ensure safe and functional use of this product.

## 3. WARNINGS AND PRECAUTIONS

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You have purchased a high quality ADC® Diagnostix™ instrument which has been manufactured to the highest global standards and is subjected to rigorous quality control.

Read these instructions for use carefully before putting the unit into operation and keep them in a safe place.

If you should have any questions, call our toll-free number or visit our website. Our address can be found on the last page of this booklet.

Please note that all instruments described in these instructions for use are only to be used by suitably trained personnel.

The performance and efficiency of these instruments are only guaranteed when genuine ADC® parts and accessories are used.

**Attention:** There may be a risk of gases igniting when the instrument is used in the presence of flammable or combustible gases. Working in areas with good ventilation is recommended.

**Never attempt to take the instrument apart!** There is a danger of **life-threatening** electrical shock. Unplug the instrument before cleaning or when disinfecting.

**Warning:** Do not use batteries, electrical cords other than those included with this product or replacement parts supplied by the manufacturer.

**Warning:** Because prolonged intense light exposure can damage the retina, the use of the device for ocular examination should not be unnecessarily prolonged, and the brightness setting should not exceed what is needed to provide clear visualization of the target structures. This device should be used with filters that eliminate UV radiation (<400 nm) and, whenever possible, filters that eliminate short-wavelength blue light (<420 nm).

The retinal exposure dose for a photochemical hazard is a product of the radiance and the exposure time. If the value of radiance were reduced in half, twice the time would be needed to reach the maximum exposure limit.

While no acute optical radiation hazards have been identified for direct or indirect ophthalmoscopes, it is recommended that the intensity of light directed into the patient's eye be limited to the minimum level which is necessary for diagnosis. Infants, aphakes and persons with diseased eyes will be at greater risk. The risk may also be increased if the person being examined has had any exposure with the same instrument or any other ophthalmic instrument using a visible light source during the previous 24 hours. This will apply particularly if the eye has been exposed to retinal photography.

**Warning:** Otoscope MUST be used with included disposable specula.

**Warning:** This product may contain a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm.

**Caution:** Not made with natural rubber latex.

**Attention:** Make sure to charge wall plug-in handles for at least 12 hours before first use and for all subsequent charges to ensure optimal capacity and battery life.

**NOTE:** To obtain the greatest performance from your Diagnostix™ Instrument, it is recommended that the instrument be used within a temperature range of 50°F (10°C) to 104°F (40°C), with a 10-95% relative humidity.



Caution: Observe the Operating Instructions



Device double-earthed



Classification

Type-B applied part - Otoscope head with speculum

To learn more, visit our website at: [www.adctoday.com](http://www.adctoday.com).

## 4. BATTERY HANDLES AND INITIAL USE

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### 4.1. Function

The ADC® battery handles described in these Operating Instructions serve to supply the instrument heads with power (the lamps are contained in their respective instrument heads).

### 4.2. Battery Handle Options

All the instrument heads described in these Operating Instructions fit on the following battery handles and can therefore be individually combined.

#### **For Otoscopes, Ophthalmoscopes, Dermoscope, Throat Illuminator, Power Handles.**

Wall Mounted Handle (with extension unit)	<b>#5660E</b>	3.5v, 230v or 120v
Rechargeable Handle (requires desk charger)	<b>#5560</b>	3.5v
Plug-In Rechargeable Handle	<b>#5460</b>	3.5v, 230v or 120v

**Note:** These handles are compatible with ADC®, Riester\*, and Welch Allyn\* 3.5v instrument heads.

\* Welch Allyn is a registered trademark.

\* Riester is a registered trademark

### 4.3. Inserting and Removing Rechargeable Batteries

Screw off the battery cap on the lower part of the handle. Depending on which handle you have purchased and for what voltage (Fig. 1), insert the rechargeable battery into the casing such that the positive end points toward the top of the handle. There is also an arrow next to the plus symbol on the rechargeable battery, which shows you the direction to insert into the handle. Screw the battery cap onto the handle to secure.



(Fig. 1)

## Plug-in Handle

Prior to initial use of the plug-in handle, it should be charged for up to 24 hours in the mains socket.

To charge Diagnostix™ standard rechargeable handles, desk charger base (# 5500) is required. Follow “Instructions for Use” supplied with desk charger.

To change plug-in handle, remove top portion by unscrewing counter-clockwise to reveal 2 prong plug in lower portion. Plug into electrical outlet.



Rechargeable  
Plug-in Handle



Recharger Base  
sold separately

## CAUTION:

- If you do not plan to use the device for a long time or if you travel with it, remove the rechargeable batteries from the handle.
- New batteries should be inserted once the light intensity of the instrument becomes weaker, even on a full charge.
- To obtain the best possible light output we recommend always fitting high quality batteries (as described in 4.3).
- If you suspect that liquid or moisture could have entered the handle, it must not be charged under any circumstances. This could lead to a life-threatening electric shock, especially in the case of plug-in handles.
- To extend the service life of the battery, the battery should only be charged once the light intensity of the instrument has become weaker.
- Plug-in handle should be charged overnight (12 hours) to ensure uninterrupted power supply.

**!** **NOTE for #5460:** 3.5 V for charging in a 120 or 230 V wall socket. When using the new 5460BAT, care must be taken to ensure that no insulation is affixed to the spring of the battery-handle cap. If the old 5460BAT is used, an insulation must be affixed to the spring to avoid short circuit.



New



Old



## Waste Disposal:

Please note that rechargeable batteries must be disposed of as special waste. You can obtain the relevant information from your local authority or from your local environmental agency.

### 4.4. Fitting Instrument Heads

Fit the required instrument head on the receptacle on the upper part of the handle such that the two recesses of the lower part of the instrument head fit on the two protruding guide studs on the battery handle. Press the instrument head lightly on to the battery handle and twist the handle clockwise until securely locked (Fig. 2). The head is removed by reversing the process.



(Fig. 2)

### 4.5 Locking Instrument Head

Instrument heads are equipped with a security feature. Use enclosed hex key to lock head onto power handle. To secure, insert hex key into slot on head and tighten by turning clockwise. Keep the hex key in a convenient place in case the head must be removed for cleaning or service.

**NOTE:** Locking the head is recommended on wall mounted systems only.

### 4.6 Adjusting the Light Intensity

With the ADC® Adtronic™ electronic rheostat, it is possible to modulate the light intensity. Smoothly control the applied power by holding the easy grip dial either turn clockwise or counter-clockwise, varying the light intensity - stronger or weaker.

**ATTENTION:** At every switch-on of the battery handle the light intensity is at 100%. Automatic safety switch-off after 180 seconds.

### Explanation of the symbol on the plug-in handle:

 **Caution:** Observe the Operating Instructions!

## 5. INSTRUMENT HEADS

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All ADC® 3.5v instrument heads are compatible with Riester and Welch Allyn power handles equipped with bayonet style mount.

## 6. DIAGNOSTIX® OTOSCOPE

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### 6.1. Purpose

The ADC® Diagnostix™ Otoscope described in these Operating Instructions is produced for illumination and examination of the auditory canal in combination with the ear specula. The ADC® Diagnostix™ Oscopes are compatible with Riester, or Welch Allyn speculum.

### 6.2. Fitting and Removing Ear Specula

Screw the speculum clockwise until noticeable resistance is felt. To remove the speculum, twist the speculum counter-clockwise.

### 6.3 Swivel Lens for Magnification

**Standard Series:** The swivel lens (3x max.) is fixed to the device and can be swiveled 360° (Fig. 3).

**PMV Series:** The focusing wheel allows you to adjust the focusing range. The adjustment wheel moves up and down to focus the lens (Fig. 4).



(Fig. 3)

### 6.4 Insertion of External Instruments into the Ear

**Standard Series only:** If you wish to insert external instruments into the ear (e.g. tweezers), you have to rotate the swivel lens located on the otoscope head by 180°.



(Fig. 4)

### 6.5 Pneumatic Test

To perform the pneumatic test (examination of the eardrum), an insufflator is required to be connected (sold separately (#5122N)). The tube for the insufflator is attached to the connector port on the right side of the instrument head (Fig. 5). Now you can carefully insert the necessary volume of air into the ear canal.



(Fig. 5)

## 6.6 Technical Data of the Lamp

Otoscope XL 3.5 V	3.5 V 720 mA	mean life span 15h
Otoscope LED 3.5 V	3.5 V 28 mA	mean life span 100,000h

## 7. DIAGNOSTIX® OPHTHALMOSCOPE

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### 7.1. Purpose

The ADC® Diagnostix™ Ophthalmoscope described in these Operating Instructions is produced for the examination of the eye.

### 7.2. Lens Wheel with Correction Lens

correction lens can be adjusted on the lens wheel.  
following correction lenses are available:

#### **Coax 3.5v Ophthalmoscope** (Fig. 6).

Plus: 1-10, 12, 15, 20, 40

Minus: 1-10, 15, 20, 25, 30, 35

#### **Coax Plus 3.5v Ophthalmoscope** (Fig. 7).

Plus: 1-45 in single steps

Minus: 1-44 in single steps

The values can be read off in the illuminated field of view. Plus values are displayed in green numbers, minus values with red numbers.

### 7.3. Apertures

The following apertures can be selected with the aperture hand-wheel (Fig. 8).



Standard Head  
(Fig. 6)



Premium Head  
(Fig.7)



Switching Aperture  
(Fig.8)

### **Coax Ophthalmoscope:**

Semi-circle, small/medium/large circular aperture, fixation star and slit.

### **Coax Plus Ophthalmoscope:**

Semi-circle, small/medium/large circular aperture, fixation star, slit and grid.

<b>Aperture</b>	<b>Function</b>	<b>Model(s)</b>
 Half Moon	For examinations with turbid lenses	Coax/Coax Plus
 Micro Spot	Allows quick entry into small, undilated pupils	Coax/Coax Plus
 Small Circle	Excellent view of fundus through an undilated pupil	Coax/Coax Plus
 Large Circle	For a dilated pupil and general examination	Coax/Coax Plus
 Karo (Grid)	For topographic determination of retina changes	Coax Plus Only
 Slit	To help determine levels of tumors and lesions	Coax/Coax Plus
 Fixation star	Measuring eccentric fixation or locating lesions	Coax/Coax Plus

### **7.4. Changing Filters**

Using the filter wheel, the following filters can be switched for each aperture.

#### **Coax & Coax Plus Ophthalmoscope:**

Red-free filter, blue filter, and polarisation filter.

<b>Filter</b>	<b>Function</b>
<b>Red-free filter:</b>	Contrast enhancing to assess fine vascular changes, e.g. retinal bleeding.
<b>Polarisation filter:</b>	For precise assessment of tissue colors and to minimize retinal reflections.

## **Blue filter:**

For improving recognition of vascular abnormalities or bleeding, for fluorescence ophthalmology.

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## **7.5. Focusing Device (Coax Plus)**

Fast fine adjustment of the examination area to be observed is achieved from various distances by turning the focusing daisywheel (Fig. 9).



(Fig 9)

## **7.6. Technical Data on the Lamp**

Coax 3.5 V ophthalmoscope: 3.5v / 690 mA / average service life 15 h

Coax Plus 3.5 V ophthalmoscope: 3.5v / 29 mA / average service life 100,000 h

## **8. DIAGNOSTIX™ DERMASCOPE**

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### **8.1. Purpose**

The Diagnostix® Dermoscope described in these Operating Instructions is produced for early identification of changes of skin pigmentation (malignant melanomas).

### **8.2. Focusing**

Focus the magnifying glass by rotating the eyepiece ring (Fig. 10).



(Fig. 10)

### **8.3. Contact Plates**

Two contact plates are supplied:

- 1)** Without a scale.
- 2)** Including a scale of 0 - 10 mm for measuring melanotic skin changes, such as malignant melanoma.

## 8.4. Technical Data of Lamp

Dermascope LED: 3.5 V 28 mA / mean life span 100,000h

## 9. DIAGNOSTIX™ THROAT ILLUMINATOR

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### 9.1. Purpose

The throat illuminator described in these Operating Instructions is produced for examination of the oral cavity and pharynx in combination with commercial wooden and plastic blades.

### 9.2. Technical Data of Lamp

Illuminator XL	3.5 V 720 mA	mean life span 15h
Illuminator LED	3.5 V 28 mA	mean life span 100,000h

## 10. REPLACING THE LAMP

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### All Instrument Heads

Remove the instrument head off the battery handle. The lamp is located at the base of the instrument head. Pull the lamp out of the instrument head with thumb and forefinger or a suitable tool. Insert a new lamp.

**CAUTION:** The pin on the ophthalmoscope lamp must be inserted into the guide groove on the instrument head.

\*Use only ADC®, or Riester lamps.

## 11. SPARE PARTS AND ACCESSORIES

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For a complete list of our physical exam instrument spare parts and accessories, please visit our website at [www.adctoday.com](http://www.adctoday.com).

## 12. CLEANING AND DISINFECTION

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Cleaning and disinfection of the medical devices serves to protect the patient, the user and third parties and to preserve the value of the medical devices. Due to the product design and the materials used, no defined limit can be specified for the maximum number of reprocessing cycles that can be carried out. The life span of the medical devices is determined by their function and by gentle handling of the devices. Defective products must undergo the reprocessing procedure described before being returned for repair.

**Cleaning and Disinfection** The instrument heads and handles can be cleaned externally with a moist cloth until visually clean. Wipe disinfection as specified by the disinfectant manufacturer. Only disinfectants with proven efficacy should be used, taking into account the national requirements. After disinfection, wipe the instrument down with a moist cloth to remove possible disinfectant residues. The components that come into contact with the skin can be rubbed down with alcohol or a suitable disinfectant.

### **Please Note!**

- Never immerse the instrument heads and handles in liquids!  
Take care to ensure that no liquids get inside the casing!
- This item is not approved for automated reprocessing and sterilization.

### **Single-Use Ear Specula**

 **For single Use Only**

**WARNING:** Repeated use can cause infections.

## **13. TECHNICAL SPECIFICATIONS**

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Ambient Temperature:	32°F-104°F (0°C to +40°C)
Relative Humidity:	30% to 70% non-condensing
Transport and Storage Temperature:	14°F-131°F (-10°C to +55°C)
Relative Humidity:	10% to 95% non-condensing

## **14. MAINTENANCE**

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These instruments and their accessories do not require any specific maintenance. Should an instrument have to be examined for any specific reason whatsoever, please return it to ADC®.

## **15. ELECTROMAGNETIC COMPATIBILITY**

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Medical electrical equipment is subject to special precautionary measures with regard to electromagnetic compatibility (EMC).

Portable and mobile high-frequency communication equipment can influence medical electrical equipment. This ME device is intended for operation in an electromagnetic environment as specified below. The user of the device should ensure that it is operated in such an environment.

The ME device must not be used directly next to or arranged in a stack with other devices. If the device has to be operated near to or in a stacked arrangement with other devices, then the ME device should be monitored in order to verify that it operates as intended in this arrangement. This ME device is intended exclusively for use by professional medical staff. This device can cause radio interference and can disrupt the operation of equipment nearby. Suitable remedial measures, such as for instance re-alignment, re-arrangement of the ME device or shielding, can become necessary.

**Guidelines and manufacturer's declaration - electromagnetic emissions**

The Diagnostix™ instrument is intended for operation in an electromagnetic environment as specified below. The customer or the user of the Diagnostix™ instrument should ensure that it is used in such an environment.

<b>Emission Measurements</b>	<b>Compliance</b>	<b>Electromagnetic Environment Guidelines</b>
HF emissions according to CISPR 11	Group 1	The Diagnostix™ instrument employs HF energy solely for an internal function. Its HF emission is therefore very low and it is unlikely that neighboring electronic devices will be affected by interference.
HF emissions according to CISPR 11	Class B	The Diagnostix™ instrument is intended for use in all facilities, including living quarters and such as are directly connected to a public power supply that also supplies buildings that are used for residential purposes.
Harmonics emissions according to EC61000-3-2	Not applicable	
Voltage fluctuation / flicker emissions according to IEC61000-3-3	Not applicable	

### Guidelines and manufacturer's declaration - electromagnetic emissions

The Diagnostix™ instrument is intended for operation in an electromagnetic environment as specified below. The customer or the user of the Diagnostix™ instrument should ensure that it is used in such an environment.

Immunity Tests	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment Guidelines
Electrostatic discharge (ESD) according to IEC61000-4-2	± 6 kV contact discharge ± 8 kV air discharge	± 6 kV contact discharge ± 8 kV air discharge	Floors should be made of wood or concrete or be covered with ceramic tiles. If the floor is covered with a synthetic material, the relative air humidity must be at least 30%.
Fast transient electrical interference/bursts according to IEC61000-4-4	± 2 kV for power lines ± 1 kV for input and output lines	Not applicable	The quality of the supply voltage should correspond to that of a typical business or hospital environment.
Surges IEC61000-4-5	± 1 kV voltage phase-to-phase ± 2 kV voltage phase-to-earth	Not applicable	The quality of the supply voltage should correspond to that of a typical business or hospital environment.
Voltage dips, short-time interruptions and fluctuations in the supply voltage according to IEC61000-4-11	<5% UT (>95 % drop in UT) for 0.5 cycles 40% UT (60 % drop in UT) for 5 cycles 70 % UT (30 % drop in UT) for 25 cycles <5% UT (>95 % drop in UT) for 5 s	Not applicable	The quality of the supply voltage should correspond to that of a typical business or hospital environment.
Magnetic field at the mains frequency (50Hz) according to IEC61000-4-8	3 A/m	3 A/m	If image disturbances occur, the Diagnostix™ instrument may have to be placed further away from the sources of mains-frequency magnetic fields, or magnetic shielding may have to be installed: the mains-frequency magnetic field should be measured at the intended set-up site in order to ensure that it is small enough.

**Note - UT is the alternating supply voltage prior to application of the test level.**

### Guidelines and manufacturer's declaration - electromagnetic immunity

This Diagnostix™ Instrument model is intended for operation in the electromagnetic environment specified below. The customer or the user of this Diagnostix™ instrument should ensure that it is used in such an environment.

Immunity Tests	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment Guidelines
Conducted HF interference according to IEC61000-4-6 Radiated HF reference cording to C61000-4-3	3 Vrms 150 kHz to 80MHz 3 V/m 80 MHz to 2.5GHz	Not applicable 10 V/m 3 V/m	Portable and mobile radio equipment should not be used within a distance from the Diagnostix™ instrument, including cables, that is less than the recommended safety distance as calculated by the equation that is appropriate for the transmission frequency.  Recommended safety distance: $d = 1.2 \sqrt{P}$ $d = 1.2 \sqrt{P}$ 80 MHz to 1000 MHz $d = 2.3 \sqrt{P}$ 1400 MHz to 2.5 GHz  Where P is the nominal power of the transmitter in Watts (W) as specified by the manufacturer of the transmitter, and d is the recommended safety distance in meters (m).  The field strength of stationary radio transmitters should be less than the compliance level at all frequencies as verified by an on-site test <sup>a</sup>

Interference is possible in the vicinity of equipment marked with the following symbol 

**Note 1:** At 80 MHz and 800 MHz, the higher value applies.

**Note 2:** These guidelines may not apply in all situations. The propagation of electromagnetic waves is influenced by reflection and absorption by buildings, objects and people.

**a.** The field strength of stationary transmitters, such as base stations of wireless telephones and mobile field radio services, amateur radio stations, AM and FM radio and television transmitters cannot be precisely determined theoretically in advance. In order to determine the electromagnetic environment due to stationary HF transmitters, an investigation of the location is advisable. If the field strength determined at the location of the Diagnostix™ Instrument exceeds the compliance level indicated above, then the Diagnostix™ Instrument must be monitored with regard to its normal operation at each place where it is used. If unusual performance characteristics are observed, additional measures such as re-alignment of the Diagnostix™ Instrument or its removal to another place may be necessary.

**b.** In the frequency range of 150 kHz to 80 MHz, the field strength should be smaller than 3 V/m.

**Recommended safety distances between portable and mobile HF communication devices and the Diagnostix® L**

This Diagnostix™ instrument is intended for operation in an electromagnetic environment in which the radiated HF interference is monitored. The customer or user of this Diagnostix™ instrument can help prevent electromagnetic interference by observing minimum distances between portable and mobile HF communication equipment (transmitters) and this Diagnostix™ instrument as recommended below, depending on the maximum output power of the communication equipment.

Nominal power of the transmitter  W	Safety distance that applies to the transmitter frequency m		
	150 kHz to 80 MHz	80 MHz to 1000 MHz	1400 MHz to 2.5GHz
	Not applicable	$d = 1.2\sqrt{P}$	$d = 2.3\sqrt{P}$
0.01		0.12	0.23
0.01		0.38	0.73
1		1.2	2.3
10		3.8	7.3
100		12	23

For transmitters whose nominal power is not indicated in the table above, the distance can be determined using the equation belonging to the respective column, where P is the nominal power of the transmitter in Watts (W) as specified by the manufacturer of the transmitter.

**Note 1:** At 80 MHz and 1400 MHz, the distance for the higher frequency range applies.

**Note 2:** These guidelines may not apply in all situations. The propagation of electromagnetic waves is influenced by reflection and absorption by buildings, objects and people.

## 16. WARRANTY

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This Diagnostix™ Instrument is warranted for 2 years on instruments and Lifetime on LED lamps, from date of purchase. This warranty includes the instrument. The warranty does not apply to damage caused by improper handling, accidents, improper use, or alterations made to the instrument by third parties. The warranty is only valid after the product is registered online at **[www.adctoday.com](http://www.adctoday.com)**.

## 17. QUALITY STANDARDS

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### Device standard:

This device is manufactured to meet the European and United States standards for:

ISO 62471:2008, ISO 15004, ISO 10942, ISO 15004-1, and ISO 15004-2

### Electromagnetic compatibility:

Device fulfills the stipulations of the International standard IEC60601-1-2

## 18. HOW TO CONTACT US

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To register your product and obtain further detailed user information about our products and services visit us at:

**[www.adctoday.com](http://www.adctoday.com)**

and follow the links.

For questions, comments, or suggestions call us toll free at:

**1-800-232-2670**



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Type BF applied part

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