



TESTAF

Technischer Standard
Fliegeruhren



EZM 10
EINSATZZEITMESSER



TESTAF
Technischer Standard
Fliegeruhren




Sinn

SPEZIALUHREN ZU FRANKFURT AM MAIN



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DEAR CUSTOMER,

We know from numerous conversations that the people who buy our watches do so out of conviction. This includes people with a pronounced affinity to technology who are fascinated, for example, by the solutions we have devised for protection from magnetic fields and scratch resistance. Some of our customers, such as divers, pilots and the German GSG 9 special police unit, rely on their watches in their respective careers because their lives depends on it.

They all swear by the performance, resilience and durability, as well as the quality and precision of our watches. That is why Hamburg-based Germanischer Lloyd regularly tests and certifies the water and pressure resistance of our diving watches.

We have selected pilot's watches tested and certified to the Technical Standard for Pilot's Watches (TESTAF) by Aachen University of Applied Sciences. The TESTAF ensures that a pilot's watch meets all timekeeping requirements during flight operations in accordance with visual and instrumental flight regulations and is suitable for professional use. Functionality is our top priority and ultimately determines the design. Only the technical features that are really needed can be found on our watches. Because we believe that products have to speak for themselves.

The basic question that we ask ourselves is: which innovative technologies and materials can be employed for our craft and provide solutions for rendering our watches even more practical for everyday use? It is often worth indulging in a little lateral thinking to see what is going on in other industrial sectors or fields of science. We repeatedly go to the limits of physical resources to upgrade our watches – with the aim of making what's good even better. Most of our best developments are yet to come!

I am delighted that you have decided to buy a SINN timepiece and hope that it will continue to give you pleasure for many years to come.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'L. Schmidt', with a stylized flourish at the end.

Lothar Schmidt

FOREWORD AACHEN UNIVERSITY OF APPLIED SCIENCES DEPARTMENT OF AEROSPACE TECHNOLOGY



Aviation, in all its forms, combines emotion and technical excellence like almost no other mode of transport. It's not just pilots who have always demonstrated their connection to flying by wearing a special timepiece – the pilot's watch.

In the early days of aviation, the pilot's watch was one of the primary navigation instruments alongside the aviation map and a compass. Charles Lindberg would rather have gone without a radio than a second timepiece on his legendary transatlantic flight. To this day, most flight procedures in instrument flying carry a corresponding time stamp.

"Pilot's watch" is however not a protected term. It is often used for purely design-oriented models, which hardly do justice to the technical requirements for a flight instrument. It was therefore natural for the Department of Aeronautics and Astronautics at the Aachen University of Applied Sciences, as one of the leading educational and research facilities for aviation, to take on the development of a test standard based on the official certification procedure for general aviation. A considerable

number of pilots, airline companies and engineers were involved in creating the requirements and the development of the extensive test procedures.

TESTAF, the technical standard for the pilot's watch, was officially presented to the public in the autumn of 2012, in the deliveries hangar of the Eurocopter company in Donauwörth. The advisory board set up for this purpose, consisting of recognised experts in aviation and the watch industry, will ensure the future continuous updating and technical advancement of the contents and test procedures.

The team at SINN, led by Lothar Schmidt, of course immediately took on this challenge and met all requirements with flying colours after an intensive development phase. You hold the result in your hands today, the TESTAF-certified pilot's watch – a very special timepiece.

Sincerely

A handwritten signature in black ink, appearing to read 'Janser', with a large, stylized flourish above it that loops back down to underline the signature.

Prof. Dr.-Ing. Frank Janser

SINN SPEZIALUHREN ZU FRANKFURT AM MAIN

It was back in 1961 that pilot and blind-flying instructor Helmut Sinn founded the company. Since then, we have been committed to producing high-specification mechanical watches. In 1994, the graduate engineer Lothar Schmidt took over the company. This marked the beginning of a new era for the SINN brand, because the new owner took a decisive step towards more innovation. Under his leadership, new technologies and materials were introduced, thus providing the crucial incentives for our company's evolution and gradual emergence as an insider's tip for lovers of fine watches. Today, our name stands for technical innovations – much to the delight of both the trade and our customers alike.



Advancements in endurance testing

Take, for example, the absolutely condensation-free, anti-reflective, german submarine steel diving watch – made possible by HYDRO technology. Other examples include a chronometer chronograph fashioned from a 22-carat gold alloy that is as hard as stainless steel and a chronometer with a magnetic resistance 20 times the standard. There are also watches with a clockwork mechanism optimally protected from aging by an inert gas and integrated dehumidifying capsule. The list would not be complete without mentioning the development of mission timers (Einsatzzeitmesser or EZM in German) for special police units and border patrol guards as well as temperature resistance technology to keep mechanical watches performing at temperatures ranging from -45°C to $+80^{\circ}\text{C}$. This technology has proven its worth in the EZM 10 TESTAF model, for example, used as part of the official approvals procedure for Eurocopter's EC 145 T2 high-performance helicopter. Hot and cold climate tests and high-altitude experiments were carried out in the deserts of the USA, the Rocky Mountains and the frozen wastes of Canada. The watch was worn unprotected, outside the pilot's overall, during cold climate tests at temperatures reaching -45°C .



Innovations and certifications

Our diving watches are made of submarine steel, such as that used to construct the outer hulls of the German Type 212A submarine class, continuously pass these tests for temperature resistance and function. Germanischer Lloyd, the world's largest classification society for maritime safety, has been testing our diving watches for pressure and water resistance since 2005. As part of Germanischer Lloyd's official certification process, our diving watches have been treated as part of diving equipment since 2006 and tested and certified in accordance with European diving equipment standards. This is unparalleled in the watch industry.

We have had selected pilot's watches tested and certified to the Technical Standard for Pilot's Watches (TESTAF) by Aachen University of Applied Sciences since 2012. The TESTAF, the result of a research project at the initiative of Sinn Spezialuhren, ensures that a pilot's watch meets all timekeeping requirements during flight operations in accordance with visual and instrumental flight regulations and is suitable for professional use.

DIAPAL is one of our most important technological developments, with oiling no longer needed for the most important functions in the watch thanks to the materials we select. This technology was first used in 2001. With the aid of TEGIMENT technology, we achieve greatly increased scratch resistance through surface hardening.

Ongoing advancement in technology and quality

Our top priority has always been to develop watches that offer superior performance – both in daily and in professional use. Which is why our engineers are working continually to identify which innovative methods, materials and technologies are best suited for optimising our watches. Each new development has to first undergo rigorous practical tests before being incorporated. And no watch leaves our workshops before it has been subjected to thorough checking and fine adjustment by our master watchmakers.

Workshop modifications and hand-engraving

From the robust case and the polished crystal through to elaborate refinements: we make sure that each and every detail of our watches is fit for purpose. The same applies to our workshop modifications. Only the perfect interaction of all components and technologies ensures that our watches can meet all their design specifications in full. Take for example the SZ02 calibre of our U1000 diving chronograph. The 60-minute scale of the stopwatch minute counter is much simpler and more intuitive to read than the 30-minute scale commonly found on other watches. The hand-engraving represents a highly personal form of refinement. If required, our specially trained master engraver can etch a name, initials, monograms or symbols onto the rotor, movement bridge and case back.



THE WORLD'S FIRST, TESTAF-CERTIFIED TIMEPIECE



TESTAF

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In a research project lasting four years, the Faculty of Aerospace Technology of the Aachen University of Applied Sciences (FH) and Sinn Spezialuhren have developed a technical standard for pilots' watches (TESTAF). TESTAF ensures that a pilot's watch meets all of the time measurement requirements for flights operated under both visual flight rules (VFR) and instrumental flight rules (IFR). The EZM 10 TESTAF, the 103 Ti TESTAF, 103 Ti UTC TESTAF and the 857 UTC TESTAF were the first SINN watches to undergo and pass the strict test procedures.

For these watches to meet all the test criteria, we had to make various adjustments to them. The watches then passed all of the tests with flying colours. This means that they are suitable for professional use as a pilot's watch – a fact that is documented by a certificate and the TESTAF seal of quality on the face of the watch.

What are the distinguishing features of a professional pilot's watch? To provide a universally valid answer to this question, it was necessary to formulate a norm or standard, which did not exist for pilots' watches until today. And so in 2008, engineer Lothar Schmidt, managing director and owner of Sinn Spezialuhren, took the initiative to close this research gap together with engineering professor Frank Janser of the Aachen University of Applied Sciences.

TESTAF now provides the answers. For example, a pilot's watch must withstand rapid temperature changes and changes in ambient pressure up to 0.044 bar – equivalent to an altitude of about 21,300 metres. A pilot's watch is thus subjected to several thousand pressure change cycles in order to simulate the actual stress conditions on a pilot's wrist. Besides being water-resistant, the watch must also be resistant to common aviation fluids such as fuels, hydraulic fluids and cleaning and de-icing agents. It is also important that the magnetic field of the pilot's watch itself does not interfere with the avionics such as the aircraft's emergency compass. It may not dazzle the pilot or produce unnecessary reflections. The watch must also be resistant to shocks and vibrations and be perfectly readable in the dark.

The list of technical and functional specifications describe precisely and unambiguously the time measurement requirements during flight in the following categories.

1. Functionality

- Required functions during flights operating under visual and instrument flight rules
- Readability in daylight and in darkness
- Good operability
- Accuracy and power reserve

2. Resistance to external stress

- Absolute and cyclical ambient pressure changes
- Operative temperature range and rapid temperature change
- Shock and impact resistance, G-forces and vibration
- Resistance to water and other aviation fluids
- Effects of magnetic fields on the watch

3. Safety and compatibility with other instruments

- Effects of the watch's magnetic signature on avionics
- Avoidance of reflections and dazzle
- Appropriate form
- Secure strap fastening

A description and photos of the tests can be found at www.testaf.org.



Differential pressure test: The EZM 10 must withstand alternating ambient pressure levels.



Dynamic G-force test on the 103 Ti Ar.



A pilot's watch such as the EZM 10 must have no magnetic influence on the emergency compass.



1211.0	1211.1	1211.2	1211.3	1211.4	1211.5	1211.6
1211.7	1211.8	1211.9	1212.0	1212.1	1212.2	1212.3
1212.4	1212.5	1212.6	1212.7	1212.8	1212.9	1213.0



FRANKFURT-MAIN, GERMANY
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EZM 10
EINSATZZEITMESSER



TESTAF
Technischer Standard
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The EZM 10 TESTAF was the first SINN watch that has been tested and certified to the Technical Standard for Pilot's Watches (TESTAF) by the Aachen University of Applied Sciences. This guarantees that the EZM 10 TESTAF meets all time measurement requirements during flights operated under visual flight rules (VFR) and instrument flight rules (IFR) and that it is suitable for professional use as a pilot's watch. This is attested to by a certificate and the „TESTAF“ quality seal on the dial.

The declared aim in designing the EZM 10 TESTAF was to create a mission timer which meets all the requirements of a professional pilot's watch in full. If pilots decide to use a mechanical watch, its clear readability is of outstanding importance. As a consequence, at the heart of this chronograph is the SINN SZ01 movement which greatly facilitates the taking of stop times. Because the SZ01 is designed so that the watch can feature a centre-mounted, jump 60-minute stopwatch hand. This special technical feature yields two benefits: firstly, 60 minutes are now counted in one sweep of the hand instead of the usual 30 minutes, and secondly, the minute stop scale covers the entire diameter of the dial meaning that the measured times can be read off immediately.

The chronograph function displays (stop second and stop minute) are luminous meaning that the stopped and the current time remain perfectly visible even in the dark. This means that the EZM 10 TESTAF fulfils a key condition for IFR and VFR certification. The function is complemented by a backwards-counting pilot's bezel with minute ratcheting which features luminous indices, numerals and main marker. As in all of our pilot's watches, this rotating bezel is captively linked to the case and has a luxury feature: the ring insert is made from high-grade sapphire crystal glass. However it is not only the clear readability which qualifies the EZM 10 TESTAF as a pilot's watch, but also its extensive range of technological features.

The EZM 10 TESTAF has an impressive appearance yet is also a pleasure to wear - not least due to its bead blasted high-strength titanium case featuring TEGIMENT Technology. The EZM 10 TESTAF is therefore a striking pilot's watch which delivers high performance while remaining suitable for daily use.

The Aachen University of Applied Sciences has compiled a full set of information on TESTAF at www.testaf.org.



Zertifikat

Mit diesem Zertifikat wird bescheinigt, dass die vor Folgenden genannten Uhren die Beantragung gemäß dem Technischen Standard Fliegeruhren (TESTAF, Version 01 (2012)) bewilligt haben:

Hersteller:	Swiss
Herstellerbezeichnung der Uhr:	EZM 10 TESTAF
Referenznummer/Modell:	950.1200 bis 950.1800
Referenznummer:	Lebenswandel
	Montanmaterial
	Stickermaterial

Die Zertifizierung erfolgt gemäß Absatz 3.1.1 des TESTAF für Flüge nach:
Südflugregion
Südpolarregionen

und gemäß Absatz 3.2.2 des TESTAF
für den Temperaturbereich: von -10°C bis $+50^{\circ}\text{C}$.

Die Nachvollziehbarkeit des Herstellers und seiner Zulassung zum Bestehen der Beantragung des Absatzes 3.2.2 des TESTAF liegt dem Antrahaber vor.

Die Schlichter dieses Zertifikats für die einzelnen Uhren aus dem oben genannten Seriennummernbereich ist die Zusicherung des Herstellers getrieben, dass jede in den Handel gelangte Uhr die Anforderungen der Einzelprüfungen (zum Hersteller durchzuführen) gemäß der folgenden Abschnitte des TESTAF erfüllt:

- 3.1.8 Ganggenauigkeit
- 3.1.9 Gangreserve
- 3.1.7 Wasserdrucktest

Diese Zusicherung, die mit der Angabe von DPL, Datum und dem Uhrenmodell eines einzelnen weiblichen Mitbewerbers des Herstellers versehen ist, liegt dem Prüfer vor.

Durch die Erfüllung der Anforderungen des TESTAF wird bestätigt, dass die hier genannten Uhren für den professionellen Einsatz als Fliegeruhren geeignet sind. Für die langfristige Nutzung wird die Einhaltung der nach Hersteller angegebener Serviceintervalle, eine regelmäßige Überprüfung von Ganggenauigkeit, Gangreserve und Wasserdrucktest sowie eine Sicht- und Funktionsprüfung empfohlen.

Aachen, den 14 März 2012


Frank Dr.-Ing. Frank Sauer

The certificate confirms that the EZM 10 TESTAF has successfully passed the TESTAF test.

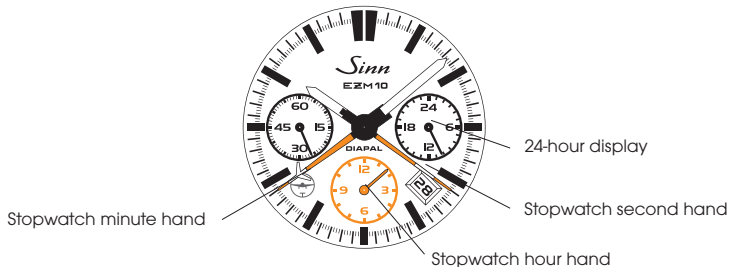


CENTRE-MOUNTED STOPWATCH MINUTE HAND – THE SINN SZ01

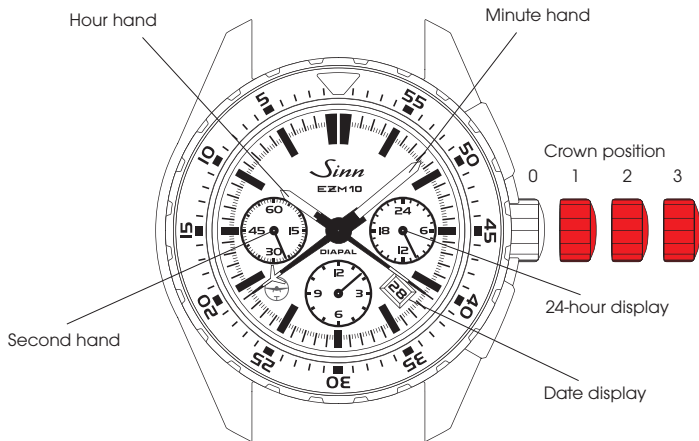
The SZ01 chronograph is based on the successful Valjoux 7750 and has been specially developed by SINN. The development work began back in 2003.

The main priority in undertaking the redesign was to make the chronograph functions significantly easier to read off. Which is why we attached so much importance to finding a first-class technical solution to mounting the stopwatch minute hand in the centre of the dial. This allows users to take accurate stop times even more quickly and simply. The clarity and distinct readability of this chronograph stem from the design of the well-known Lemania 5100 movement.

Our redesign enhances the readability in two ways: firstly, 60 minutes are now counted in one sweep of the hand instead of the usual 30 minutes, and secondly, the minute stop scale covers the entire diameter of the dial.



INSTRUCTIONS FOR USE



Winding the watch (crown position 1)

The crown is screwable (crown position 0). To loosen the crown, turn it *counter-clockwise*. The movement is wound by turning the crown *clockwise*. About 40 winds of the crown are generally enough to ensure reliable functionality. Under normal circumstances, simply wearing the watch every day should suffice to keep the self-winding mechanism wound. The power reserve allows you to take off your watch overnight without having to re-wind it.

Time adjustment (crown position 3)

In crown position 3, the motion is paused. This helps you to set the watch precisely. To set the time accurately, we recommend moving the hand past the desired minute marker and then adjusting it *counter-clockwise*. Please make sure that the date changes at midnight and not at midday when adjusting the time. Move the hand forward until the date changes before you attempt to set the time. The movement restarts as soon as the crown is no longer in position 3.

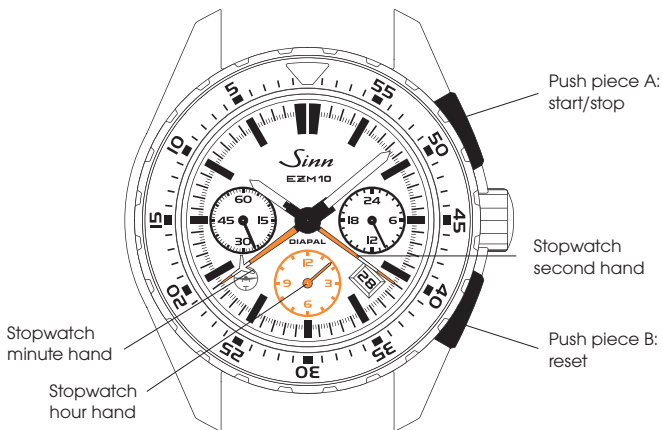
Quickset date adjustment (crown position 2)

Do not use this function between 9 p.m. and 3 a.m. Set the crown in position 2 and turn it *clockwise* until the correct date appears in the date display window. **Please do not use the date-setting function between 9 p.m. and 3 a.m.** Between these times, the gear wheels used for changing the date are engaged, and the movement could be damaged.

Please take care to fasten the crown after making adjustments.

Using the chronograph to measure time

The chronograph is operated by means of buttons A and B. The measurement starts when button A is pressed once. Pressing this button again stops the measurement. The measurement is resumed by pressing button A once more. This allows you to add up and record the cumulative time. Button B resets the hands of the chronograph to zero.



Using the pilot's bezel to measure time

The pilot's bezel is an outer ring divided into minutes, and can be moved manually in both directions. The triangle glows in the dark. It can be used in a number of ways, including to measure important lengths of time. For example, you can set the marking to the beginning of the time span to be measured, or you can use it to indicate the end of a given span of time. The triangle can be set in relation to the hour hand, minute hand or centre second hand.



ADJUSTING THE LENGTH OF THE WATCH STRAPS

If you don't know how to shorten or lengthen the solid bracelet, please contact your SINN dealer or the watchmakers in our customer service department in Frankfurt am Main. Our customer service employees are also happy to help you over the telephone.

Adjusting the length of the solid bracelet

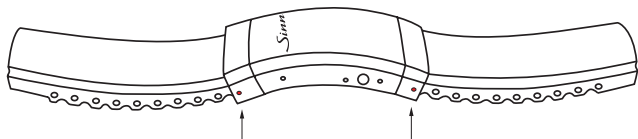
Determine the relative lengths of the two sides before adjusting the length of the bracelet. To ensure maximum comfort, both sides of the bracelet should contain the same number of links. If this is not possible, the top bracelet strap (above the 12 on the clock) should be longer.

It is not necessary to detach the solid bracelet from the watch or the clasp.

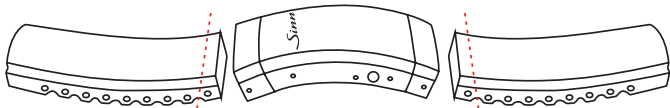
1. Loosen the screws on the side of the bracelet link which is to be removed or added.
2. Remove the superfluous bracelet link or insert a new one.
3. Before screwing tight, add a small drop (no more!) of thread-locker (AN 302-42 medium-tight) to the thread of the bracelet screw.

Adjusting the length of the silicone strap

1. Release the silicone band from the clasp. To do so, use the pointed end of the band replacement tool to push the spring bar out of the fastener. The other side of the spring bar can be removed while the fastener is open, enabling you to remove the silicone band.



2. Using a knife or scissors, cut the silicone band in the middle between two metal pins. You should shorten the band symmetrically and little by little, starting from the clasp, until you have reached the desired length. Test the length from time to time before proceeding. Shortening both ends by the length of one metal pin results in a total difference of 10 mm in the length of the strap; shortening one end reduces the length by 5 mm.



3. Remove the first metal pin and replace it with the spring bar. Then reattach the clasp to the band.

Ar-DEHUMIDIFYING TECHNOLOGY

Indication colours of the drying capsule



Pale blue

Up to 25%
saturation



Light blue

Up to 50%
saturation



Medium blue

Up to 75%
saturation



Dark blue

Up to 100%
saturation



Initial condition



Drying capsule
saturated

The colour scale for the Ar-Dehumidifying Technology: the capsule continues to absorb moisture until the darkest colouration is reached.

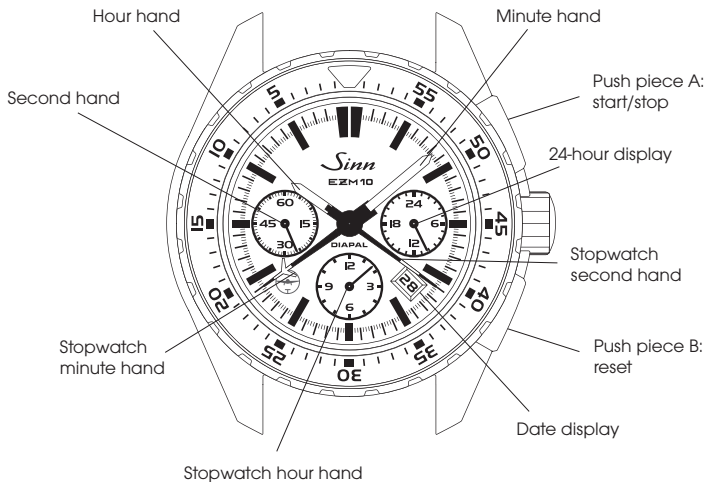
Perfect freedom from fogging

All watches in this series are water-resistant as per DIN 8310. But even with watertight instruments, the air enclosed in the case contains water in a gaseous state. And air can also penetrate the seals and acrylic glasses. When the water vapour in the case condenses into liquid, the instruments are impossible to read. To prevent this from happening, we have developed the Ar-Dehumidifying Technology. The combination of a special drying capsule, EDR seals (**e**xtr**e**m**e** **d**iffusion **r**eduction) and a filling of protective gas guarantee that the crystal remains free from fogging, even in difficult conditions.

Longer service intervals

The sophisticated Ar-Dehumidifying Technology considerably slows the aging process of the watch's inner workings and keeps the movement functioning properly for longer. That is why we issue a three-year warranty on all our watches featuring Ar-Dehumidifying Technology. When the drying capsule is saturated, as indicated by a deep blue colour (refer to picture on the left side), we recommend you have it exchanged so you can continue to enjoy all the advantages of the Ar-Dehumidifying Technology (enhanced reliability, longer intervals between maintenance).

TECHNICAL DETAILS



Mechanical Movement

- Sinn movement SZ01
- Self-winding mechanism
- 34 bearing jewels
- 28,800 semi-oscillations per hour
- Shock resistant as per DIN 8308
- Anti-magnetic as per DIN 8309

Watch Case

- Titanium, bead-blasted
- Crown screwable
- Sapphire crystal glass in front
- Case back screw-fastened
- Water-resistant as per DIN 8310
- Water-resistant and pressure resistant up to 20 bar (= 200 m underwater depth)
- Low pressure resistant
- Band lug width 22 mm
- Case diameter:
3h – 9h = 46,5 mm
6h – 12h = 44 mm

Tests and certification

Tested and certified in accordance with TESTAF by Aachen University of Applied Sciences, Aerospace Engineering department

Functions

- Hours, minutes, subsidiary seconds
- 24-hour display
- Chronograph
- Date display
- Pilot's bezel

SINN Technologies

- DIAPAL Technology, lubrication-free escapement
- Ar-Dehumidifying Technology
- Case made with TEGIMENT Technology
- Push-pieces made with Black Hard Coating
- Functionally reliable from -45 °C up to +80 °C
- Integrated push-pieces protection with D3-System
- Captive bezel

Dial and Hands

- Matte black dial
- Indices and hands coated with luminescent colour
- Pilot's bezel with luminescent colour
- Chronograph function with daylight luminous paint



SERVICE

General advice

To preserve the water resistance for as long as possible, the watch should be rinsed whenever it has been in contact with seawater, chemicals, etc. If your watch is frequently worn in water or underwater, we recommend having its water resistance checked at yearly intervals.

The watch is designed to withstand high levels of mechanical wear and tear and is shock resistant as per DIN 8308. Nevertheless, it goes without saying that continual mechanical stress in the form of impacts or vibration will affect its durability. Care should therefore be taken to protect your watch from unnecessary wear and tear. It is only possible to judge how well the watch keeps time after it has been in operation for approximately eight weeks, since it takes that long for the working mechanism to become adjusted, especially in view of the fact that everybody has different lifestyles and habits. In the event of any excessive deviation, please keep a day-to-day record of its timekeeping over a period of about one week, for example.

Do you have any questions?

Our employees will be pleased to advise you. Simply get in contact with us. We look forward to talking to you.

Telephone: + 49 (0)69 978 414 400

Telefax: + 49 (0)69 978 414 401

E-mail: kundendienst@sinn.de



Should you need to send your watch in to customer service, we need to ensure the process goes smoothly. We ask that you please include the following information:

- Name, address, e-mail address and fax number (where applicable) and a daytime telephone number.
- A detailed description of the problem. What is the exact nature of the defect? At what time does the problem arise? How often does the problem occur?
- Wherever possible, please state the date of purchase and your customer number (indicated on the invoice) or enclose a copy of the invoice.

For information about the process, please refer to the section entitled 'Repairs' in our general terms and conditions of business. You'll find our general terms and conditions of business on our website www.sinn.de/en. We would be happy to send you a copy of the general terms and conditions, or you can contact our customer service department directly. For insurance reasons, we strongly recommend sending us any return goods by registered parcel post. As an alternative for customers in Germany, there is also the option of a collection service covered by transport insurance, on request. To ensure your request is dealt with smoothly, please call our customer service department! We regret that we are unable to accept deliveries with unpaid postage!

Please send your watch to the following address:

Sinn Spezialuhren GmbH
Kundendienst
Im Fuldchen 5-7
60489 Frankfurt am Main
Germany

You can also find comprehensive information about SINN, our watches and technologies at www.sinn.de/en.



Nachtansicht: Auch die gestoppten Zeiten (Stoppsekunde und Stoppminute) sind bei Nacht ablesbar. Eine wesentliche Bedingung, um nach IFR zertifiziert werden zu können.

Luminous: stopped times (seconds and minutes) are also readable at night. An essential condition for IFR certification.



Durch die Beschichtung der Stoppfunktion mit orangefarbener Tagesleuchtfarbe ist auch die Stoppfunktion in abgedunkelten Cockpits unter Schwarzlicht kontrastreich ablesbar.

The orange-coloured daylight luminous paint coating of the stop function ensures that all the timekeeping functions remain visible under UV light in darkened cockpits.

Sinn

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