

OVER NINETY YEARS IN AVIATION: A COMMITMENT TO QUALITY



REVUE THOMMEN AG aerospace products factory and the historic town of Waldenburg.



Gedeon Thommen,
Founder, REVUE THOMMEN

REVUE THOMMEN AG started as a Swiss watch manufacturer in 1853 founded by Gedeon Thommen upon the simple principle of uncompromised precision, quality, accuracy, and reliability.

In 1916 the Swiss Air Force issued the order to THOMMEN to design and develop an aircraft chronograph. That initial involvement in aviation would shape the company's future. It was, however, the awarding of a major contract by the Swiss Military in 1936 that proved the turning point in the history of the company.

REVUE THOMMEN was entrusted with the development and supply of altimeters, airspeed indicators, vertical speed indicators, clocks and the landing gear for the C-35, a multi-purpose, double-decker aircraft manufactured by Eidgenössischen Konstruktionswerkstätte in Thun, Switzerland.

Today a robust Swiss watchmaker culture prevails in every discipline within THOMMEN raising the meaning of the words

"Swiss Made" to new heights. To this day THOMMEN electro-mechanical instruments are hand crafted by graduate Swiss watchmakers. THOMMEN electronic products are built with the same commitment to quality craftsmanship. The ultimate commitment to the culture is the continued manufacture of a complete line of THOMMEN wrist watches.



QUALITY ASSURANCE

In 1994 THOMMEN acquired ISO 9001 Certification and today maintains compliance with EN 9100/AS 9100. In addition, the THOMMEN quality system has been audited and approved by the European Aviation Safety Agency (EASA), and ASD-EASE audits. Other quality standards met on a consistent basis include EASA Part 21 Subpart G and O and 145 requirements as well as the applicable FAA TSO's for instrument and software design and environmental testing according to the latest DO-160 and military standards.

ENGINEERING AND MANUFACTURING

To meet the highest requirements for quality metrics and certification, Thommen has integrated stringent policies and procedures in both the Engineering and Manufacturing disciplines. In addition to their watchmakers, REVUE THOMMEN employs a highly skilled group of electronic engineers in the development, engineering and support of their electronic product line. All software is engineered to DO-178B Level A for TSO certification.



THOMMEN OWNERSHIP

After 152 years of private ownership, an agreement was struck and signed by the parties early in 2005 paving the way for a management buy-out of the company and today the men that run the company, own the company. Energy, optimism, professionalism and a passion for success through growth, typify the personality of the THOMMEN management team and those traits will drive the company direction both in the near term and for years to come. The result has been the accumulation of an impressive list of TC and STC approved installations for THOMMEN instruments and air data computers as part of more than one hundred new production programs and as many aircraft upgrade programs worldwide. REVUE THOMMEN AG will stay an independent, privately owned Swiss company, small enough to be agile and flexible, yet strong enough to set the pace in the manufacture of avionics and pressure measurement instruments.

THE THOMMEN BUSINESS MODEL

THOMMEN's business has concentrated in aviation over time with more than 85% of the business today attributed to this sector. As stated above, THOMMEN instruments and air data computers are already established within the design of more than one hundred new production programs and numerous aircraft upgrades worldwide. That includes, as an example, nearly all helicopter and trainer aircraft manufacturers in Europe, America and Asia and all categories of aircraft in civil and military aviation.

THOMMEN is also a distinguished partner supporting aircraft modernization programs and in meeting NVIS and RVSM standards, installations of integrated avionics with requirements for air data and stand-by instrumentation, conversions from metric to imperial system or vice versa, and Fit-Form-Function compatible replacements of obsolete instruments.

The goals for the future will be focused on future product opportunities based on the core product technologies and in leveraging these successes in new markets. Pursuit of these goals have led to finding opportunities yet untapped by THOMMEN products. These include US Business Aviation, as well as the Asian retrofit markets.

You will see the THOMMEN Business Model continue to evolve in the future with a focus on niche solutions in aviation.



AIRCRAFT INSTRUMENTS

the **THOMMEN** story

REVUE THOMMEN AG

 **Swiss Manufacturer**
of Precision Aircraft Instruments & Avionics



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AIR DATA COMPUTERS

AIR DATA DISPLAYS

FLIGHT INSTRUMENTS

CLOCKS & CHRONOGRAPHS



AD32 RVSM Air Data Display

Upgrade for RVSM compliance of aircraft operating FL 290 and above

The Integrated Air Data Display provides all ARINC 429 labels required for the new generation Avionics System and ensures a safe integration into the existing Aircraft Avionics Systems.

- RVSM Compliant
- Very High Accuracy
- Integrated Solid State Pressure Sensors
- Modular Design
- Provides Up To 2x16 SSEC Curves
- RTCA/DO-178B Level A Software
- RTCA/DO-160D Env. CAT YY Tested
- 28VDC 8W Power Supply
- TSO Certified
- RS232 Maintenance Interface
- MTBF 21,700 Hours



AD32 Air Data Display

OEM or upgrade solution for Helicopters, Trainers, Turboprops. Form/Fit/Function replacement for mechanical units. The NVG capability meets the law enforcement and military requirement.

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- 28VDC 8W Power Supply
- TSO Certified
- RS232 Maintenance Interface
- MTBF 21,700 Hours



AD32 Electronic Encoding Altimeter

OEM or upgrade solution for Helicopters, Trainers, Turboprops. Form/Fit/Function replacement for mechanical units. The NVG capability meets the law enforcement and military requirement.

Cost effective solution for replacement of older mechanical instruments with an electronic instrument.

- High Accuracy
- Integrated Solid State Pressure Sensors
- Modular Design
- RTCA/DO-178B Level A Software
- RTCA/DO-160D Env. CAT YY Tested
- 28VDC 8W Power Supply
- TSO Certified
- RS232 Maintenance Interface
- MTBF 21,700 Hours



AD30 Air Data Display (Repeater)

OEM or upgrade solution for displaying Altitude received from an external Air Data source. Form/Fit/Function replacement for obsolete Servo/Synchro indicators. The NVG capability meets the law enforcement and military requirement.

The Air Data parameters can be transmitted via the configurable ARINC 429 interface from existing Air Data systems. Replacement for obsolete Servo and Synchro indicators like the BA141.

- TSO Certified
- RS232 Maintenance Interface
- RTCA/DO-178B Level A Software
- MTBF 21,700 Hours



AC32 Digital Air Data Computer

OEM or upgrade solution for providing Air Data parameters to EFIS, TAWS, EGPWS, Mode S transponders, etc.

The Integrated Air Data Computer provides all ARINC 429 labels required for the new generation Avionics Systems and ensures a safe integration into the existing Aircraft Avionics Systems.

- RVSM Compliant
- Very High Accuracy
- Integrated Solid State Pressure Sensors
- Modular Design
- Provides Up To 2x16 SSEC Curves
- RTCA/DO-178B Level A Software
- RTCA/DO-160D Env. CAT YY Tested
- 28VDC 7W Power Supply
- TSO Certified
- RS232 Maintenance Interface
- MTBF 21,000 Hours



AC33 High Integration Data Computer

The AC33 incorporates all the capabilities of the AC32 above. Additionally, the AC33 includes:

- RTCA/DO160F EMV.CAT YY Tested
- Up to 8 Aircraft Profiles
 - 2 SSEC Curves/aircraft
 - 2 PEC Curves/aircraft
- RS 422 Data Serial Interface
- Analog Inputs
 - Baro Potentiometer
 - AOA Potentiometer
- Analog Outputs
 - Altitude DC for autopilots and preselectors



AD20 2" Electronic Standby Altimeter

OEM or upgrade solution for the replacement of mechanical standby altimeters.

- RTCA/DO-178B Level A Software
- TSO Certified
- Up To 4 Aircraft Profiles
- MTBF 54,000 Hrs



MD21 2" Electronic Standby Mach Airspeed Indicator

- RTCA/DO-178B Level A Software
- TSO Certified
- VMO/MMO Overspeed Warning
- Up To 4 Aircraft Profiles
- MTBF 55,000 Hrs



Altimeters



Encoding Altimeter
3A67 - 3"



Altimeter
3A63 - 3"



Altimeter
3A43 - 2"



Altimeter
3A41 - 2"

Airspeed Indicators



Airspeed Indicator
5A16 - 3"



Airspeed Indicator
5A58 - 2"



MACH Airspeed Indicator
5C - 3"



MACH Airspeed Indicator
5C55 - 2"



Max. Allowable Airspeed
Indicator 5C - 3"

MACH & Max. Allowable Airspeed Indicators

Vertical Speed Indicators



Vertical Speed Indicator
4A16 - 3"



Rate of Climb Indicator
4A58 - 2"



Differential Pressure
Indicator 3G10 - 2"



Cabin Altimeter
3A58 - 2"



Cabin Rate of Climb
Indicator 4A58 - 2"

Cabin Condition Instruments

Clocks & Chronographs



B13 Mechanical 8-day
Clock and Chronograph



Q18 Quartz
Clock and Chronograph



DC20 Digital Quartz
Chronograph