



As an internationally active company, STS Sensor Technik Sirnach AG have been producing state-of-the-art measurement and recording equipment for water-management and industrial applications for over 20 years.

The most stringent requirements for quality, precision, reliability and long service life apply to each individual part and sensor. It is important to us to satisfy the needs of our customers and to develop and produce products that satisfy these needs.

STS AG regards itself as an innovative think-tank that has been developing solutions for customer-specific applications since 1987. It manufactures individual products and entire systems in the field of pressure measuring equipment. The company goal to become the market leader in this field and to pursue a consistent niche-market strategy in the following segments:

- Offshore / sub sea engineering
- Shipbuilding
- Water body / ground water measurement
- Environmental technology
- Explosion suppression
- Gas / oil pipelines
- Testing / calibration technology

By co-operating closely with customers and suppliers, STS AG develops, produces and sells cost-optimised all-in-one solutions.

Based on a broad spectrum of knowledge and experience, STS AG is able to create high-quality products from customer needs in shortest of times.

Subsidiaries in Germany, Italy, France and Great Britain as well as qualified representatives and resellers distribute and service our products on a global scale.

● **HEADQUARTERS**

STS Sensor Technik Sirnach AG

● **SUBSIDIARIES**

STS France

STS Germany GmbH

STS Italia s.r.l.

STS Great Britain Ltd.

● **AGENCIES**

STS Sensor Technik Sirnach AG is supported by an excellent international distribution network.

Represented by

Industry



STS Sensor Technik Sirnach AG supply products for a wide variety of industrial applications. Individually-configurable standard products with very short delivery times are available.

Whether in small or large batches, products from STS Sensor Technik Sirnach AG are used wherever there are demanding requirements for quality and technical specifications.

www.stssensors.com



Oil & Gas

STS Sensor Technik Sirnach AG is a successful supplier of high-quality products for offshore and onshore oil production. In these applications, the quality and reliability of measured values are paramount. Very high precision of the transmitters or measuring cells are important criteria in the measurement of gas.

STS Sensor Technik Sirnach AG supply transmitters, measuring cells and customer-specific products for these industries.

Shipbuilding

STS Sensor Technik Sirnach AG have a decades-long tradition as a supplier of level sensors and pressure transmitters for the shipbuilding supply industry and shipbuilding. Many manufacturers of assemblies for ship automation used on and below deck have been served by our world-wide sales network over the years.

All products are available with the approval of a wide variety of certification organisations, and thousands have stood the test of time in the oceans of the world.

Explosion Protection

For over 20 years, STS Sensor Technik Sirnach AG have been supplying pressure transmitters and switching electronics to manufacturers of safety systems for explosion and fire protection.

Excellent reliability and fast response time over a large range of temperatures are important features of these products.

Analysis & Medicine

STS Sensor Technik Sirnach AG develop and build a variety of different pressure sensors for the analysis and medical fields.

Typical applications of these sensors include dialysis pumps, injection pumps and other analysis equipment.

Automotive & Aviation












STS Sensor Technik Sirnach AG supply high-precision, long-life pressure and temperature transmitters for a wide range of temperatures.

With us, excellent long-term stability (freedom from drift) is standard. Our customers include manufacturers of test rigs for engines, aircraft and spacecraft.

Hydraulics

STS Sensor Technik Sirnach AG is a supplier of high-quality pressure and temperature sensors and combined pressure/temperature sensors for mechanical and apparatus engineering. STS AG supply a complete range of standardised products and customer-specific solutions.

The ruggedness and quality of the transmitters enable them to be used in hydraulics applications on machines, in pumps, compressors and electro-erosion machines etc., for example. High precision and the option to adapt the equipment to different applications characterise pressure transmitters from STS AG.

Informations / Legend	TD	TM/Ex	ATM.ECO/Ex	ATM.1ST/Ex	ATM/GR	ATM/T	DL/EX	DTM	PTM PTM/Ex	PTM RS485	TS 100
1) Option: Lightning protection											
Pressure Range	100 mbar ... 1000 bar (50 mbar on request)	100 mbar ... 1000 bar (50 mbar on request)	100 mbar ... 1000 bar	100 mbar ... 1000 bar (50 mbar on request)	100 mbar ... 1000 bar (50 mbar on request)	100 mbar ... 1000 bar (50 mbar on request)	100 mbar ... 1000 bar (50 mbar on request)	100 mbar ... 1000 bar (50 mbar on request)	100 mbar ... 1000 bar	100 mbar ... 1000 bar	Pressurized till 850 bar
Pressure Type	Gauge Absolute (vacuum) Sealed gauge	Gauge Absolute (vacuum) Sealed gauge	Gauge Absolute (vacuum) Sealed gauge	Gauge Absolute (vacuum) Sealed gauge	Gauge Absolute (vacuum) Sealed gauge	Gauge Absolute (vacuum) Sealed gauge	Gauge Absolute (vacuum) Sealed gauge	Gauge Absolute (vacuum) Sealed gauge	Gauge Absolute (vacuum) Sealed gauge	Gauge Absolute (vacuum) Sealed gauge	-
Temperature Measuring Range	-	-	-	-	-	-50 ... 150°C	-	-	-	-10 ... 50°C -25 ... 85°C	-50 ... 150°C
Accuracy	≤ ± 0.50 %FS ≤ ± 0.25 %FS ≤ ± 0.10 %FS	≤ ± 0.50 %FS ≤ ± 0.25 %FS	≤ ± 0.25 %FS	≤ ± 0.25 %FS ≤ ± 0.10 %FS ≤ ± 0.05 %FS	≤ ± 0.50 %FS ≤ ± 0.25 %FS ≤ ± 0.10 %FS	≤ ± 0.50 %FS ≤ ± 0.25 %FS ≤ ± 0.10 %FS	≤ ± 0.25 %FS ≤ ± 0.10 %FS	≤ ± 0.25 %FS ≤ ± 0.10 %FS	≤ ± 0.25 %FS ≤ ± 0.1 %FS	≤ ± 0.25 %FS ≤ ± 0.1 %FS	According to datasheet
Compensated Temperature Range	0 ... 70°C -25 ... 85°C	0 ... 70°C -25 ... 85°C	0 ... 70°C -25 ... 100°C	0 ... 70°C -25 ... 100°C -40 ... 125°C	0 ... 70°C -25 ... 85°C	0 ... 70°C -25 ... 85°C	0 ... 70°C -25 ... 85°C	0 ... 70°C -25 ... 85°C	0 ... 70°C -10 ... 50°C -25 ... 85°C	0 ... 70°C -10 ... 50°C -25 ... 85°C	0 ... 80°C -25 ... 100°C -25 ... 150°C
Maximum Medium Temperature Range	-40 ... 150°C	-40 ... 150°C	-40 ... 150°C	-40 ... 150°C	-40 ... 150°C	-40 ... 150°C	-40 ... 100°C	-40 ... 150°C	-25 ... 150°C	-25 ... 150°C	-50 ... 150°C
Output Signals	mV, differing of pressure range and supply	mV, differing of pressure range and supply	4 ... 20 mA 0... 5V 0...10V	4 ... 20 mA 0... 5V 0...10V	0 ... 20 mA 4 ... 20 mA	0...10 V DC 0...20 mA, 4...20 mA	RS232	RS232 RS485	4 ... 20 mA ¹⁾	RS485 and 4...20 mA ¹⁾	0 ... 10 VDC 0 ... 20 mA 4 ... 20 mA four wire (passive)
Electrical Connections	5 golden pins specific connections available	Connector: DIN, Binder, MIL Cable: PUR, PE, PTFE	Connector: DIN, Binder, MIL Cable: PUR, PE, PTFE	Connector: DIN, Binder, MIL Cable: PUR, PE, PTFE	Connector: DIN, Binder, MIL Cable: PUR, PE, PTFE	Connector: DIN, Binder, MIL Cable: PUR, PE, PTFE	Connector: Lumberg RSF4	Connector: DIN, Binder, MIL Cable: PUR, PE, PTFE	Connector: DIN, Binder, MIL Cable: PUR, PE, PTFE	Connector: DIN, Binder, MIL Cable: PUR, PE, PTFE	Connector: DIN, Binder, MIL Cable: PUR, PE, PTFE
Material	Steel (1.4435/316L) Titanium Hastelloy	Steel (1.4435/316L) Titanium	Steel (1.4435/316L) Titanium	Steel (1.4435/316L) Titanium	Steel (1.4435/316L)	Steel (1.4435/316L)	Housing Aluminium Pressure connection Steel (1.4435/316L)	Steel (1.4435/316L)	Steel (1.4435/316L) Titanium	Steel (1.4435/316L) Titanium	Steel (1.4435/316L)
Approvals	-	Ex II 1G EEx ia IIC T4...T6	GL II 1G Ex ia IIB/IIC T3...T6 II 1D Ex iaD 20 IP6x T145...T70°C (only 4...20mA)	GL II 1G Ex ia IIB/IIC T3...T6 II 1D Ex iaD 20 IP6x T145...T70°C (only 4...20mA)	-	-	II 1G EEx ia IIC T4	-	GL, ABS, DNV II 1G Ex ia IIB/IIC T3...T6 II 1G Ex iaD 20 IP6x T125...T80°C	-	-
Special Characteristic	Available with polynomial compensation	-	-	option active compensated	-	Pressure and temperature measurement in one sensor	Sample rate 2s ... 24h memory capacity 130'000 values	-	Pressure range from -5% till +105% FS from 1:4 programmable	Pressure range from -5% till +105% FS from 1:4 programmable	-