



# Water & Environment

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



Water is one of the world's most important natural resources. Indeed, clean potable water is essential to life!

However, water does not only serve the purposes of food and hygiene; it is also used for agricultural irrigation, as a habitat, as a raw material, solvent or cooling medium in industry, as a source of energy and also as a transport medium.

Water-related products are our area of expertise. Thanks to its range of high quality and intelligent products for measuring pressure, temperature, fluid levels and conductivity, STS Sensor Technik Sirnach AG is a dependable partner in all matters concerning water, be it in the area of hydrology, wastewater, water processing, fresh water or geology.

[www.stssensors.com](http://www.stssensors.com)



### Hydrology / Geology

The measurement and recording of important parameters, such as level, temperature and conductivity, can be a decisive factor for important decisions in these industries.

STS Sensor Technik Sirnach AG supply high-precision, compact level sensors and Dataloggers for level, temperature and conductivity measurement in this field.

### Water treatment












Clean water is becoming increasingly scarce in our environment. As a result, wastewater purification is playing an ever more significant role in society. Manufacturers of water-treatment systems have been relying on products from STS Sensor Technik Sirnach AG for years.

STS Sensor Technik Sirnach AG has long focussed on this area in terms of its products and, as such, plays a major role in water resource treatment. Thousands and thousands of level sensors used in these applications have performed their duty in water-treatment systems for years.

### Water resource

Fresh water provision is becoming an ever more important task within our society. In many parts of the world the supply of a sufficient quantity and quality of clean drinking water is far from assured.

For more than 20 years, STS Sensor Technik Sirnach AG has been manufacturing relevant products to support the provision of this essential resource to more people on our planet.

Informations / Legend	TM/N/Ex	ATM.ECO/N/Ex	ATM.1ST/N/Ex	ATM/N 19	ATM/N/T	DL/N 70	MTM/N 10	PTM/N 2-wire PTM/N/Ex	PTM/N/SDI-12	PTM/N/RS485	Communication Module DL/N 70
1) Option: lightning protection											
<b>Measuring Range</b>	1 mwc ... 250 mwc (0.5 mwc on request)	1 mwc...250 mwc	1 mwc ... 250 mwc (0.5 mwc on request)	1 mwc... 250 mwc (0.5 mwc on request)	1 mwc ... 250 mwc (0.5 mwc on request)	1 mwc ... 250 mwc (0.5 mwc on request)	10 mwc ... 100 mwc	1 mwc ... 250 mwc	1 mwc ... 250 mwc	1 mwc ... 250 mwc	<b>Frequency bands</b> GSM 900/1800/1900 MHz
<b>Temperature Measuring Range</b>	-	-	-	-	-25 ... 80°C	-5 ... 80°C	-	-	-5 ... 50°C	-10 ... 50°C -25 ... 85°C	<b>Transfer rate</b> 9600 Baud
<b>Accuracy</b>	≤ ± 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	≤ ± 0.50 %FS ≤ ± 0.25 %FS ≤ ± 0.10 %FS	≤ ± 0.25 %FS ≤ ± 0.10 %FS	≤ ± 0.25 %FS ≤ ± 0.10 %FS	≤ ± 0.25 %FS ≤ ± 0.10 %FS	<b>Data transmission rates</b> per 1000 measurements: GSM modem: ca. 36s PC analog modem: ca. 21s
<b>Compensated Temperature Range</b>	-5 ... 50°C	-5 ... 50°C -5 ... 80°C	-5 ... 50°C -5 ... 80°C	-5 ... 50°C -5 ... 80°C	-5 ... 50°C -5 ... 80°C	-5 ... 50°C	-5 ... 50°C	-10 ... 50°C (-25 ... 85°C on request)	-5 ... 50°C	-10 ... 50°C (-25 ... 85°C on request)	<b>Temperature range</b> -20 ... 55°C
<b>Maximum Temperature Range</b>	-5 ... 50°C (-5 ... 80°C on request)	-5 ... 80°C	-5 ... 80°C	-5 ... 50°C (-5 ... 80°C on request)	-5 ... 50°C (-5 ... 80°C on request)	-5 ... 50°C	-5 ... 50°C	-5 ... 50°C (-5 ... 80°C on request)	-5 ... 50°C	-5 ... 50°C -5 ... 80°C	<b>Humidity</b> 0 ... 100% rel. H IP67
<b>Version</b>	Open Closed	Open Closed	Open Closed	Closed	Open Closed	Open Closed	Closed	Open Closed	Open Closed	Open Closed	<b>Software</b> PC, Pocket PC
<b>Output Signals</b>	mV	4 ... 20 mA 0 ... 5 V 0 ... 10 V	4 ... 20 mA 0 ... 5 V 0 ... 10 V	4 ... 20 mA 0 ... 5 V 0 ... 10 V	4 ... 20 mA 0 ... 20 mA 0 ... 5 V 0 ... 10 V	RS485	4 ... 20 mA, 0 ... 20 mA 0 ... 5 V, 0 ... 10 V RS485 (DL version)	4 ... 20 mA <sup>1)</sup>	SDI-12	RS 485 and 4 ... 20 mA <sup>1)</sup>	<b>Datalogger interface</b> RS485
<b>Electrical Connection</b>	PUR, PE, FEP	PUR, PE, FEP	PUR, PE, FEP	PUR, PE	PUR, PE, FEP	PUR, PE, FEP	PUR	PUR, PE, FEP	PUR, PE, FEP	PUR, PE, FEP	-
<b>Material</b>	Steel (1.4435/316L) Titanium	Steel (1.4435/316L) Titanium	Steel (1.4435/316L) Titanium	Stahl (1.4435/316L)	Steel (1.4435/316L) Titanium	Steel (1.4435/316L) Titanium	Steel (1.4435/316L)	Steel (1.4435/316L) Titanium	Steel (1.4435/316L)	Steel (1.4435/316L) Titanium	<b>Ports</b> Stainless steel 1.4435
<b>Approvals</b>	II 1G EEx ia IIC T3...T6	GL II 1G Ex ia IIB/IIC T3...T6 (only 4 ... 20 mA)	GL II 1G Ex ia IIB/IIC T3...T6 (only 4 ... 20 mA)	-	-	-	-	GL/ABS/DNV II 1G Ex ia IIB/IIC T3...T6	-	-	<b>Housing</b> Aluminium AlMgSi1 chromated
<b>Special Characteristic</b>	-	-	-	Transmitter with 19 mm outside diameter	Pressure and temperature measuring in one sensor	Data storage: 500'000 Transmission rates optional with temperature and conductivity available	Transmitter with 10 mm outside diameter	Pressure range from -5% till +105 %FS in 1:4 adjustable	Data transmission protocol SDI-12	Pressure range from -5% till +105 %FS in 1:4 adjustable	-