Unequalled quality and precision

Thermal energy meters from Sontex: flexible and reliable.

Sontex

Sontex thermal energy meter is top of its class

Sontex thermal energy meters for heating and cooling are available for many flow rates. They are used in building technology and automation as well as in heating networks.

Sontex thermal energy meters have long been used for heat metering and are unrivalled in cooling applications. The flow rate and temperature differences data are send to a calculator for displaying energy consumption data. They can be fitted horizontally or vertically and used in hot or cold pipe configurations.

A wide range of communication modules is available.

Sontex thermal energy meters are used with over 90 different cooling liquids, which can be extended upon request. Glycol mixtures have no effect on measurement precision.

Reliability

Since thermal energy meters have no moving parts, their measurement components are not susceptible to ageing. They work ultra precisely and do not need recalibrating for more than 10 years.

Certification

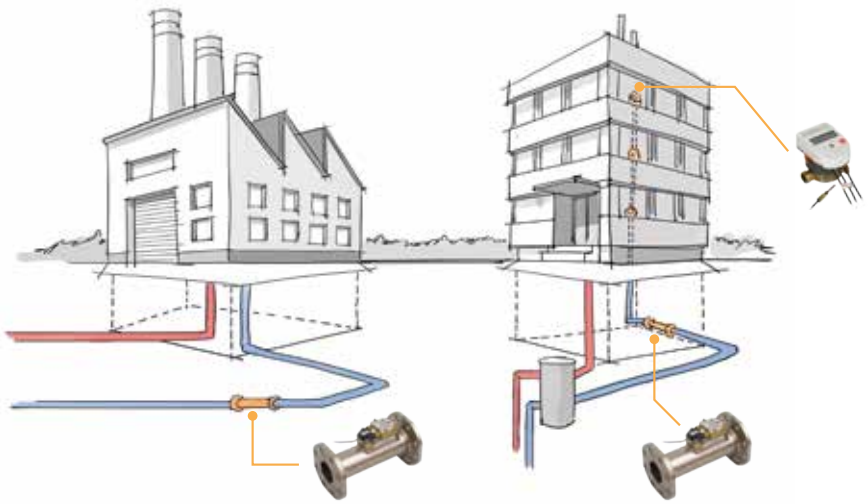
Thermal energy meters meet the requirements of the European guideline MID-2014/32/EU and offer unequalled precision. They are also certified by PTB Germany for cooling applications.

Rugged

Since the devices are impervious to contamination and magnetite deposits, they are suitable for challenging applications. Small air bubbles also have no effect on measurement precision.

Long lifespan

With their static measurement process involving no moving parts, Superstatic heat meters are practically free of wear, are maintenance-free and enjoy a long lifespan.



The high-end solution

Relevant data for successful integration in building management systems – the multifunctional calculator is part of the Supercal 5 S and is available as a stand-alone calculator called Supercal 5 I.

Supercal 5 S

The Supercal 5 S meter is the highend solution for large installations such as shopping centres, large residential complexes or heating networks, where very different sizes are required. It is a fluidic oscillation heat and cooling meter for flow rates from 1.5 to 1,500 m^3/h. High-quality, corrosion-resistant materials – brass, spheroidal cast iron or stainless steel– guarantee measurement stability and reliability over many calibration periods.

Irrespective of nominal size, the Supercal 5 S measuring head is always identical and is the only part that is changed for each new calibration period. This greatly simplifies planning and the heavy main element can remain in the pipe system. Thermal energy meters comply with the requirements of the standard EN1434 class 2.

The temperature probes delivered by Sontex are available in many versions and are MID certified.

Piezoelectric sensor

Flow sensors work by fluidic oscillation: the specific geometry within the meter creates a stable oscillation with a frequency directly proportional to the flow rate.

The piezoelectric sensor measures this frequency based on the differences in pressure and converts it into an electrical signal.

The ultra-flexible integrator for high-end solutions

With its many communication interfaces that meet all customer requirements, Supercal 5 I calculators can also be used with applications that need alternative volume measurement parts and temperature probes.

Supercal 5 I

The multifunctional Supercal 5 I calculator is a success thanks to its modular concept. The calculator offers a choice of M-Bus and radio modules and can be upgraded with additional communication modules such as e. g. BACnet, ModBus. It is also possible to replace the metrological part of the calculator without removing the lower part from the installation.

This optimises replacement times and reduces costs for mandatory meter replacement.

The operating principle is clear and user-friendly. It allows the collection, read-out and analysis of a wide range of data. A data-logger is also integrated.

Supplied with a battery as standard, other supply modules are available. The device automatically recognises the power supply installed.

The powerful compacts

The Sontex range of heat meters has a solution for almost every application. Both Superstatic fluidic oscillation heat meters and Supercal mechanical devices feature unparalleled reliability and precision.

Superstatic 789

The latest member of the Superstatic family is a logical development of the fluidic oscillation measurement principle. Made of high-tech composite, it is light and compact. Superstatic 789 meters are robust, extremely precise and flexible in use.

The flow sensor which is also suitable for glycol mixtures, is based on a piezo-technology. It is equipped with a removable multifunction calculator and a choice of communication options such as LoRaWAN, wM-Bus or SONTEX radio and M-Bus to cover several applications. Also suitable for easy integration into heating networks or building management systems.

Superstatic 749

The Superstatic 749 fluidic oscillation meter is very compact and fits seamlessly into the Superstatic product portfolio. It is designed for heat and cooling applications. Superstatic 749 meters have a removable compact calculator with communication modules and is easily integrated into heating networks or building management systems.

Supercal 739

The Supercal 739 compact mechanical heat meters are available as single-jet flow sensors or coaxial multi-jet flow sensors with various connections. Suitable for G2B, M77×1.5 or M62×2 connections, they meet the requirements of EN standard 1434 class 3 and are certified either for heat or cooling applications.

They are noted for their excellent price-performance ratio and are the reference in heat metering in many countries.

The precise temperature measurement

The Sontex range of temperature probes and thermowells with different diameters and lengths is designed to cover almost all applications.

Standard

Sontex delivers quality temperature probes for fast and precise temperature measurement for various heating and cooling applications. These highly precise and accurate Pt 500 or Pt 1000 temperature probes are used for the energy consumption measurement used for billing.

Universal

Universal Pt 500 temperature probes are used for temperature measurement in closed pipeline systems. Universal temperature probes are equipped with locks for different thermowell lengths. This reduces the number of temperature probe variants for stock-keeping and achieves greater flexibility and reduces costs. As the probes are installed in thermowells, emptying the system for regular replacement at the end of the certification period is no longer necessary. The temperature probes are approved according to the EU Directive 2014/32/EU (MID).

«A wide range of products for very different requirements matched by great uniformity and clever systematics – Thanks to Superstatic we are a step ahead in the market»

Patrick Grichting, Head of Sales & Marketing

Sontex
your link to innovative metering

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