

SIEMENS



siemens.com/sitransp

Setting new standards in pressure measurement.

SITRANS P500: the new high-end transmitter of the SITRANS P family with unmatched usability and accuracy.

Answers for industry.

SITRANS P500: the new transmitter to meet the highest demands

Against the background of rising demands and increasingly more complex applications in the process industries, measuring systems must also continuously raise their game. The need is for transmitters that stand out for their extended functionality and increased accuracy. The best example of this is the SITRANS P500. With this latest member of our comprehensive SITRANS P family, we present a top-of-the-line device that sets new standards in measuring precision, ruggedness and ease of use.

With the SITRANS P500, you profit from pressure measurement of the highest standard. It is the specialist for the chemicals, oil and gas, and power industries, and guarantees an accuracy of 0.03 % – up to a turndown of 10:1. In addition, it can be used up to a maximum media temperature of 125 °C (257 °F) without the use of a remote seal.

Precise, reliable and fast

Fluctuating temperatures or problems with static pressure are minimized with SITRANS P500 – thanks to outstanding temperature compensation and a separate static pressure sensor.

The SITRANS P500 provides significantly increased total performance. Excellent long-term stability offers you both significant cost savings when recalibrating the measuring points as well as a long-term reliability on measurement values. Its exceptionally short response time enables you to react quickly to process changes.

User-friendly and clear

Local setup using the backlit display, including graphical representation of measured values using bar graphs, curves and trend diagrams, offers you user-friendly operation and further information about your process. You can also operate and configure the SITRANS P500 conveniently using the HART protocol.

An innovatively structured EDD with a host of additional functions makes even special configurations child's play.

Your benefits at a glance:

- Reference accuracy $\leq 0.03\%$
- Total performance $\leq 0.09\%$ (for a turndown up to 5:1)
- Total performance $\leq 0.14\%$ (for a turndown up to 10:1)
- Extremely good long-term stability 0.05% / 5 years and 0.08% / 10 years
- Short step response times (T63) < 88 ms
- Separate static pressure sensor
- Configuration possible via HART and via local display
- Turndown (TD) up to 200:1
- Static pressure up to 160 bar (2320 psi) possible
- Degree of protection IP66/IP68 and NEMA 4x
- Process temperature up to 125 °C (257 °F) possible without remote seal
- Space savings thanks to short flanges only 86 mm (3.4") long



Important questions – accurate answers

You need to measure pressure with constantly high measuring accuracy?

With a measuring accuracy of 0.03 %, total performance of 0.09 %, the SITRANS P500 offers measuring results which meet the highest requirements.

You need outstanding long-term stability and reliability?

With a long-term stability of 0.05 %/5 years and 0.08 %/10 years the SITRANS P500 offers measuring results you can trust on the long run.

You need operating options that are as simple as possible and yet versatile?

The SITRANS P500 can be set up on-site using a full-text-enabled, backlit display and 3 push buttons with a high degree of user-friendliness. The transmitter can also be configured and operated conveniently from the control system using the HART protocol.

Diagnostics are an important part of process monitoring for you?

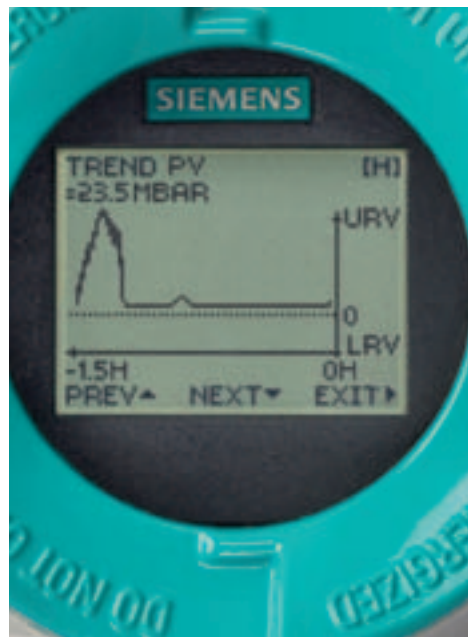
You always have your process under control thanks to the extensive diagnostics options of the SITRANS P500, such as 8 min/max pointers showing the time of the event.

You have to respond to changes as quickly as possible to ensure the safety of your plant or process?

The SITRANS P500 offers you an extremely short step response time (T63) under 88 ms.

You have high process temperatures?

With direct connection, process temperatures up to 125°C (257°F) can be applied to the SITRANS P500.



More information ...

www.siemens.com/sitransp
www.siemens.com/processinstrumentation

Siemens AG
Industry Sector
Sensors and Communication
76181 KARLSRUHE
GERMANY

Subject to change without prior notice
Order No.: E20001-A870-P710-X-7600
DISPO 27900
21/31046 MI.SC.PS.XX01.52.1.02 WS 03115.0
Printed in Germany
© Siemens AG 2011

www.siemens.com/processautomation

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.