

2-wire analyzers for
pH/ORP, conductivity or
oxygen. For analog, digital
and Memosens sensors.

Stratos *Pro*





Stratos

The State of the Art for Process Analytics.

With its exceptional range of functions and application-oriented design, Stratos is well-established in the entire chemicals industry, in process and power plant engineering and in the pharmaceutical and biotechnology industries.

Suitable for all conceivable indoor and outdoor scenarios, the Stratos brand is today a synonym for innovation and reliability in process applications around the world – for example in

starch production in Germany, sugar manufacturing in Brazil, cooling water monitoring in France or medicine production in Belgium.

With its outstanding quality and diversity of equipment, the Stratos Pro series is the reference in 2-wire technology for process analytics.



Stratos *Pro* 2-wire analyzers with great flexibility

The Stratos Pro series supports both conventional sensors and contactless, digital Memosens technology. Even in tough ambient conditions and hazardous areas, the Stratos Pro can measure pH, ORP, conductivity (conductive and inductive) or oxygen values in almost any type of process.



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White:
Measuring mode



Red flashing:
Alarm, error



Orange:
HOLD mode



Magenta:
Maintenance request



Turquoise:
Diagnostics



Green:
Info texts



Unique color-coded user interface

Stratos Pro is the first 2-wire device in this class to feature color screen backlighting which requires an absolute minimum of electrical power. To reduce operator errors, the high-contrast widescreen display clearly indicates the current operating mode in six different color tones: The normal measuring mode is white. Information text appears on a green screen and the diagnostic menu appears on turquoise. The orange HOLD mode (e.g., during calibration) is quickly visible as is the magenta screen which indicates asset management messages for predictive diagnostics – such as maintenance request, pre-alarm and sensor wear.

The alarm status is indicated in a vibrant red, a flashing red display is a sign of impermissible entries or incorrect passcodes. Scrolling plain text messages and self-explanatory icons simplify operation.

Comprehensive features

From the wireless service interface to the complete HART communication system, the Stratos Pro series offers a wide range of reliable functions. The devices can be used in multidrop mode and are certified for handheld and asset management systems of the leading manufacturers. In contrast to all other 2-wire devices on the market, the Stratos Pro features two digital control inputs and a second power output for a further measured value. Special versions are available for temperature class T6.

Explosion protection

The special circuit technology ensures low self-heating and an extremely high reliability. Stratos Pro is certified to ATEX, IECEx, FM, CSA, NEPSI, KTL, INMETRO, TIIS. A special version with ATEX/IECEx approval is available for temperature class T6.



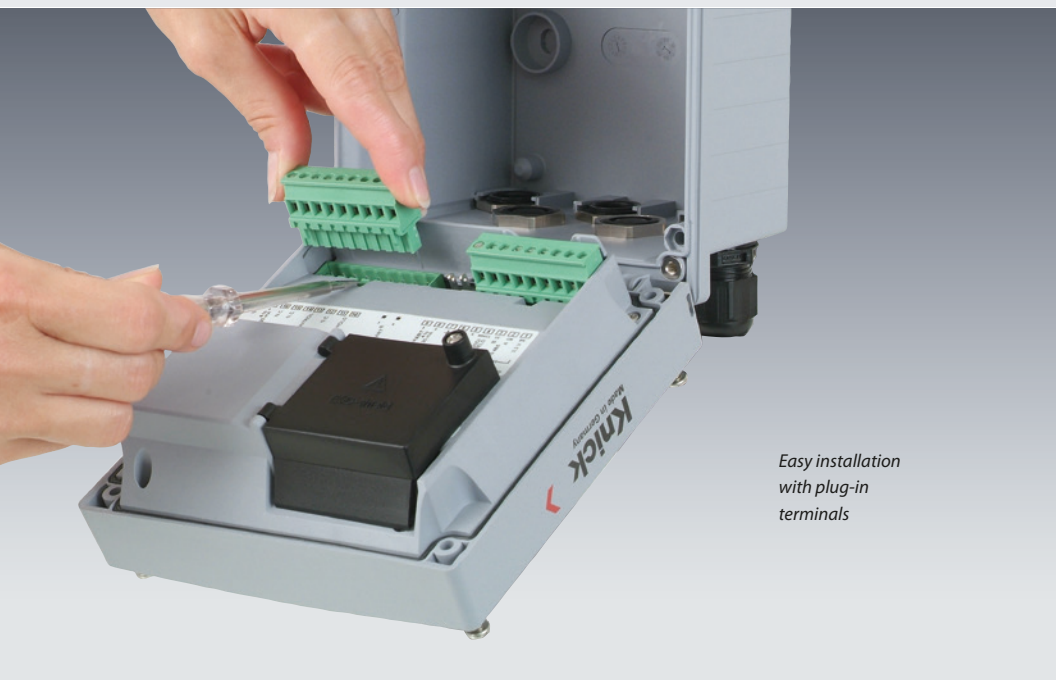
Stratos *Pro*

Shatter-proof and corrosion-resistant housing

The IP67 enclosure made of PBT is reinforced and UV protected. Safe operation is guaranteed in the range from -20°C to $+65^{\circ}\text{C}$, even for applications in hazardous locations.

Easy assembly

Stratos Pro is suitable for wall, pipe or panel mounting. The rear unit can be pre-assembled; all parts are easily accessible thanks to the large terminal compartment.



Easy installation with plug-in terminals

Facts

- 2-wire analyzers for pH/ORP, conductivity or oxygen
- For analog, digital and Memosens sensors
- Automatic sensor identification
- Sensor diagnostic with wear indication, remaining lifetime, CIP/SIP counter and adaptive calibration timer
- High-contrast widescreen display with colored backlighting
- Protective pane made of safety glass
- Intuitive operation with easy-to-understand icons and continuously running plain-text ticker line
- One analog input (4 ... 20 mA) e.g. for external pressure compensation
- Two current outputs
- Two parameter sets
- Two digital inputs
 - External HOLD activation
 - External switching between parameter sets
- Logbook (200 entries)
- HART communication
- Device versions for use in temperature class T6
- Operation in hazardous areas (explosion-protected for gas and dust) 2-wire: Zone 1 (FM, CSA Class I, Div 1)



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3-year warranty!

Maintenance work
when using
Memosens sensors



Maintenance work
when using
conventional sensors



Memosens

Interference-free coupling

The Memosens inductive sensor connector system transfers both energy and data without contact between electrochemical sensors and analyzers.

Pre-calibrated sensors

By using pre-calibrated sensors, Memosens ensures maximum availability and lower maintenance requirements at the point of measurement.

Intelligent diagnostics

Memosens allows saving and analyzing process-related data directly in the sensor.

Memosens.

The benefits at a glance:

- Plug & Measure – Sensor replacement in seconds with pre-calibrated sensors
- Simple and safe plugging with bayonet coupling
- Contactless, digital data transfer
- All key data available in the sensor
- Longer sensor service life
- Error-free measurements, even in the toughest conditions
- Just one cable system for all sensors
- Measured values not influenced by excessively long cables



www.knick-international.com/memosens



Stratos *Pro*



Protective hood



Post/pipe mounting



Panel mounting

Product Range

Stratos Pro 2-wire devices

pH/ORP, analog
 Conductivity, analog
 Dual conductivity, analog
 Conductivity, inductive, analog
 Oxygen, analog

Order No

A201N-PH
 A201N-COND
 A201N-CC
 A201N-CONDI
 A201N-OXY

Order No. Ex Zone 1

A201X-PH
 A201X-COND

 A201X-CONDI
 A201X-OXY

Order No. Ex Zone 2

A201B-PH
 A201B-COND

 A201B-CONDI
 A201B-OXY

pH/ORP, Memosens
 Conductivity, Memosens
 Conductivity, inductive, Memosens
 Oxygen, Memosens

A201N-MSPH
 A201N-MSCOND
 A201N-MSCONDI
 A201N-MSOXY

A201X-MSPH
 A201X-MSCOND
 A201X-MSCONDI
 A201X-MSOXY

A201B-MSPH
 A201B-MSCOND
 A201B-MSCONDI
 A201B-MSOXY

Stratos Pro 2-wire devices, Ex Zone 1, temperature class T6

pH/ORP, analog
 Conductivity, analog
 Conductivity, inductive, analog
 Oxygen, analog

Order No.

A201X-PH-0-T6
 A201X-Cond-0-T6
 A201X-CONDI-0-T6
 A201X-OXY-0-T6

pH/ORP, Memosens
 Conductivity, Memosens
 Conductivity, inductive, Memosens
 Oxygen, Memosens

A201X-MSPH-0-T6
 A201X-MSCOND-0-T6
 A201X-MSCONDI-0-T6
 A201X-MSOXY-0-T6



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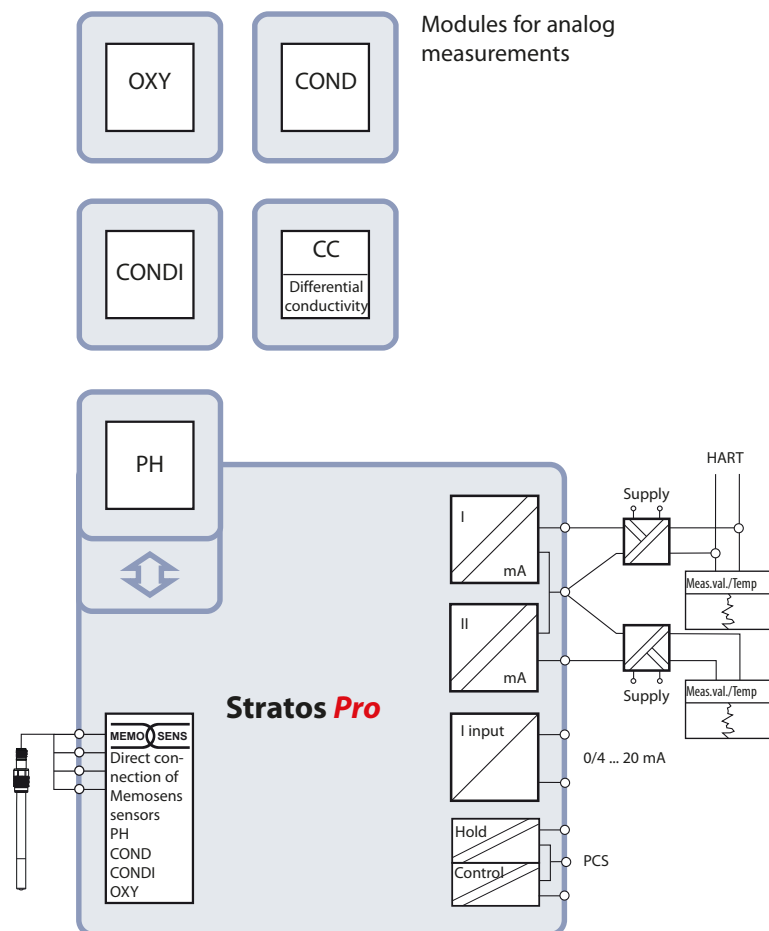


Wiring Example

TAN options	Order No.
HART communication	SW-A001
Logbook	SW-A002
Extended logbook (Audit Trail)	SW-A003
Oxygen trace measurement	SW-A004
Current input and 2 digital inputs	SW-A005
ISM digital (for pH and oxygen process parameters)	SW-A006
Operation with Pfaudler pH sensors	SW-A007

*) Measuring modules MK-PH or MK-OXY necessary.

Accessories	Order No.
Pipe-mount kit	ZU 0274
Panel-mount kit	ZU 0738
Protective hood	ZU 0737



Stratos

The Art of Expertise

Stratos *Evo*

4-wire devices, analog, digital
and Memosens

Stratos *Pro*

2-wire devices, analog, digital
and Memosens

Stratos *MS*

4-wire devices, digital and Memosens

Stratos *Eco*

4-wire devices, analog

Knick

**Elektronische Messgeräte
GmbH & Co. KG**

Beuckestraße 22, 14163 Berlin,
Germany

Phone: +49 30 - 80191 - 0

Fax: +49 30 - 80191 - 200

info@knick.de · www.knick.de