

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.



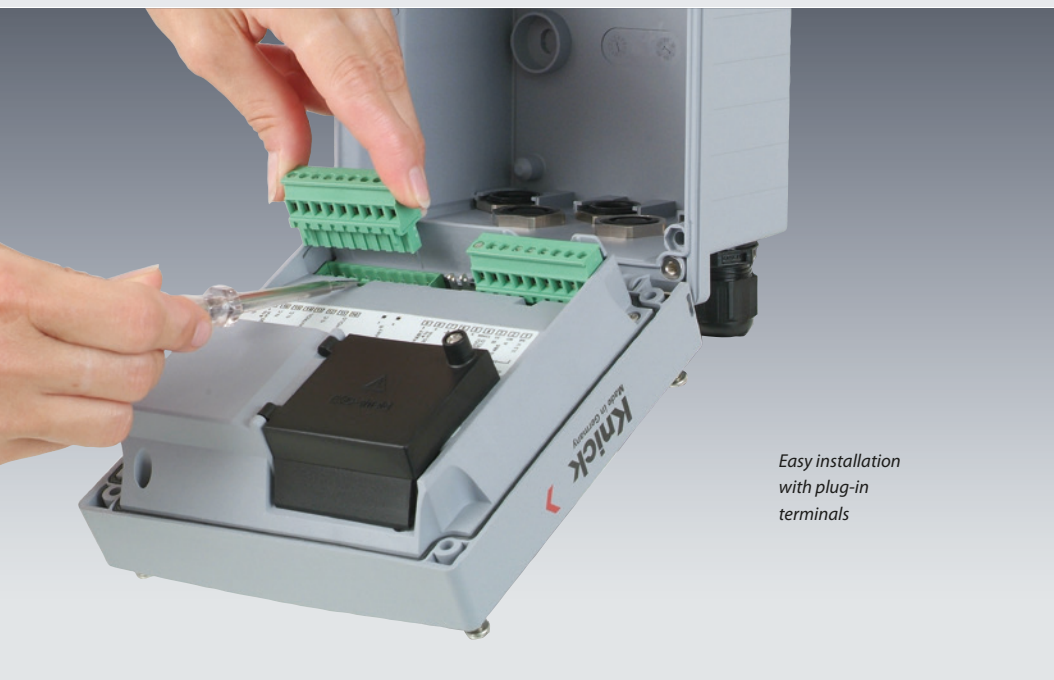
# Stratos *Pro*

## 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  $-20^{\circ}\text{C}$  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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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](http://www.knick-international.com/memosens)



# Stratos Pro



Protective hood



Post/pipe mounting



Panel mounting

## Product Range

### Stratos Pro 2-wire devices

	Order No	Order No. Ex Zone 1	Order No. Ex Zone 2
pH/ORP, analog	A201N-PH	A201X-PH	A201B-PH
Conductivity, analog	A201N-COND	A201X-COND	A201B-COND
Dual conductivity, analog	A201N-CC	---	---
Conductivity, inductive, analog	A201N-CONDI	A201X-CONDI	A201B-CONDI
Oxygen, analog	A201N-OXY	A201X-OXY	A201B-OXY
pH/ORP, Memosens	A201N-MSPH	A201X-MSPH	A201B-MSPH
Conductivity, Memosens	A201N-MSCOND	A201X-MSCOND	A201B-MSCOND
Conductivity, inductive, Memosens	A201N-MSCONDI	A201X-MSCONDI	A201B-MSCONDI
Oxygen, Memosens	A201N-MSOXY	A201X-MSOXY	A201B-MSOXY

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

	Order No.
pH/ORP, analog	A201X-PH-0-T6
Conductivity, analog	A201X-Cond-0-T6
Conductivity, inductive, analog	A201X-CONDI-0-T6
Oxygen, analog	A201X-OXY-0-T6
pH/ORP, Memosens	A201X-MSPH-0-T6
Conductivity, Memosens	A201X-MSCOND-0-T6
Conductivity, inductive, Memosens	A201X-MSCONDI-0-T6
Oxygen, Memosens	A201X-MSOXY-0-T6



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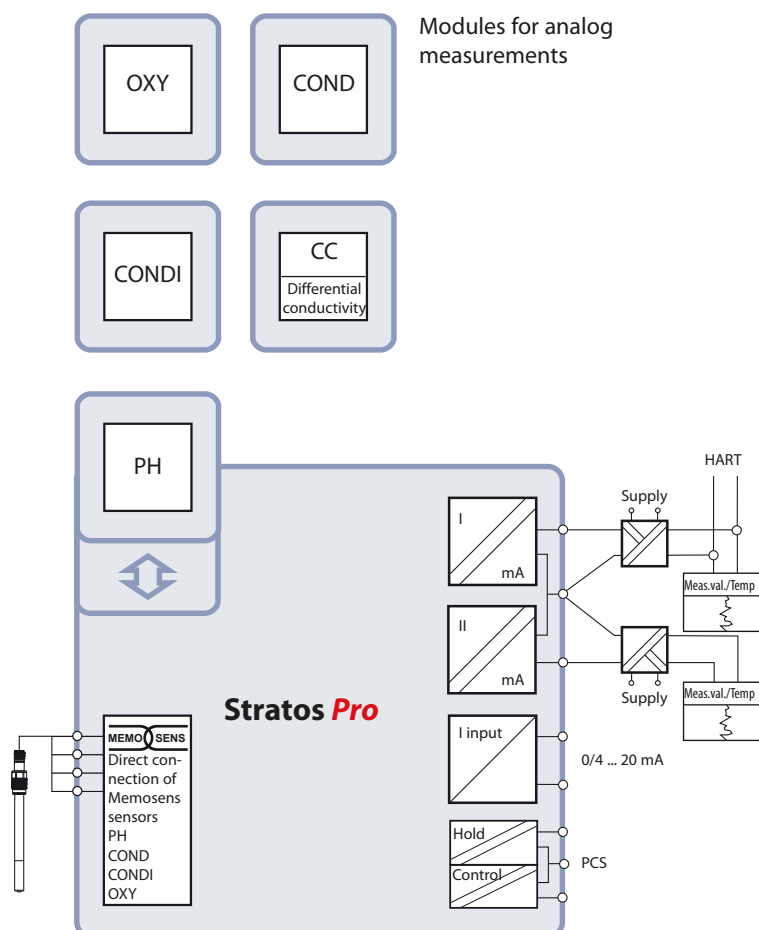


## Wiring Example

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***

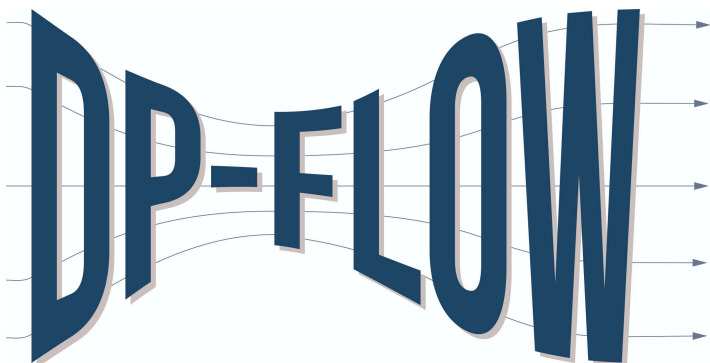
2-wire devices, analog, digital  
and Memosens

**Stratos *MS***

4-wire devices, digital and Memosens

**Stratos *Eco***

4-wire devices, analog



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