The Art of Measuring. **Knick** ❯

Advanced Process Control

Stratos *Multi*

The Multiparameter Transmitter
Compact. Flexible. Reliable.

Stratos *Multi*

The New Generation

pH/ORP

Cond

Oxy

Stratos *Multi* is the latest generation of our proven Stratos process analyzers for Memosens, digital, and analog sensors. Multiparameter functionality provides flexibility. High-resolution display for an intuitive, self-explanatory user interface.
Advanced Process Control with Ethernet interfaces.

Communicative

Support for all modern Ethernet fieldbuses means that comprehensive process and diagnostic data can be transmitted directly to the process control system. In addition, the established communication method HART can be used.

Intuitive

Large widescreen display for a quick overview of all relevant measurement data. Self-explanatory user interface with intuitive icons and multi-color display.
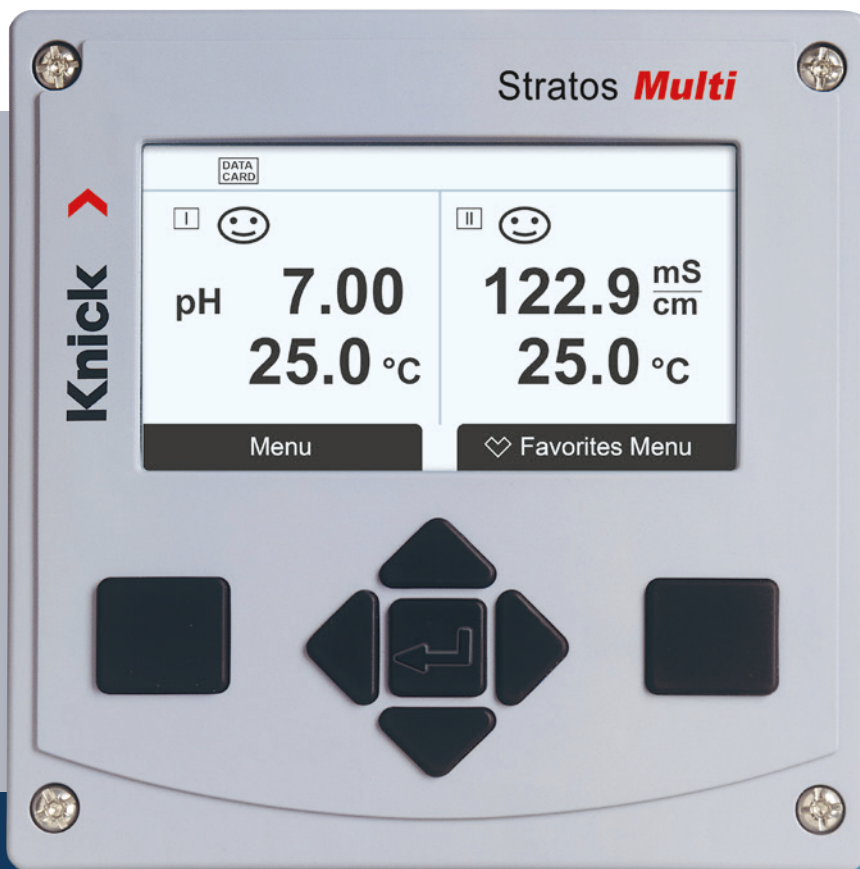
Multiparameter

Freely combinable process variables pH, ORP, conductivity, and oxygen, also in 2-channel mode.

Analog sensors can of course continue to be used for all parameters.

PROFINET

EtherNet/IP

MEMOSENS

HART
COMMUNICATION PROTOCOL

Stratos *Multi*

Facts and Features

- 1- and 2-channel version with
  4 current outputs and 3 freely
  configurable relay contacts

- Multiparameter for pH/ORP/
  conductivity/oxygen

- Self-explanatory, multi-lingual
  user interface

- TFT display with full-text menu

- 4-wire transmitter with broad-range
  power supply 24 ... 230 V AC/DC

- Predictive maintenance for
  optimal process management:
  - Sensor load diagram
  - CIP/SIP and autoclaving counter
  - Sensor diagram
  - Remaining sensor service life

- Measurement with Memosens, digital,
  and analog sensors

- Communication:
  PROFINET, EtherNet/IP, HART

- Memory cards for data recording,
  firmware update, and audit trail
  according to FDA CFR Part 11

- Security package
  - Sensor assignment
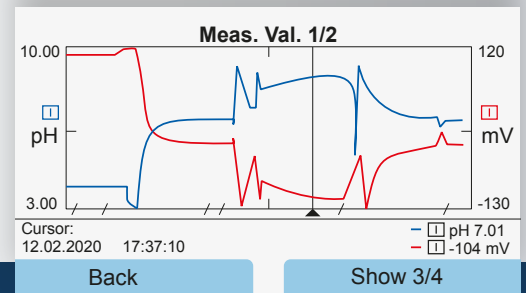 - User profiles
  - Access control

3 Year
Warranty!

Concise Information – at a Glance

Intuitive operation with full-text menu navigation in several languages. Graphical icons help you to quickly ascertain the device's condition. Guided automatic calibration provides greater reliability.

		DIAG		

Logbook

F240	11/30/19	08:33		ⓘ Cal Mode is Active
F240	11/30/19	08:21		ⓘ Cal Mode is Active
F032	11/30/19	08:13		ⓘ Sensor Identified
F029	11/30/19	08:13		ⓘ No Sensor Connected
F029	11/30/19	08:05		ⓘ No Sensor Connected
F227	11/30/19	08:05		Power Supply ON

Back

Meas. Val. 1/2

10.00 — 120

pH — mV

3.00 — -130

Cursor:
12.02.2020   17:37:10   ⓘ pH 7.01   ⓘ -104 mV

Back   Show 3/4

Worldwide Use

Menu navigation in several languages to assist the user in correct operation. Detailed information on all operating states simplifies usage.

Available languages: German, English, French, Italian, Spanish, Portuguese, and Chinese. Easy to expand.

Status Messages According to NE 107

Standardized icons reduce the risk of confusion. All status messages for required maintenance, failure, out of specification, and function check (HOLD) are output as specified in NE 107.

Seamless Data Recording

Messages and status can be recorded with the log-book and are shown directly on the display.
The measurement recorder offers comprehensive data recording including graphic display.
All data can be saved on the Data Card.

Visual Display of Sensor and Device Conditions

The color-coded user interface allows you to quickly ascertain the sensor condition. The display fields have different background colors based on the NE 107 status messages, so users can identify sensor conditions and device modes at a glance. The sensor monitoring system indicates the sensor's maintenance needs using the established Sensoface and can also be configured with messages to that effect.

Stratos Multi

DIAG

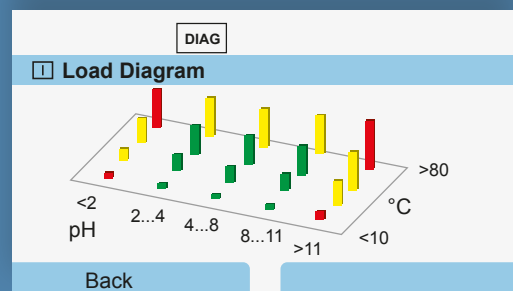☐ **Sensor Diagram pH/ORP**

1 - Slope
2 - Zero Point
3 - Glass Impedance
4 - Reference Impedance
5 - Response Time
6 - Calibration Timer
7 - Sensor Wear

Back

DIAG

☐ **Sensor Wear Monitor**

Operating Time	69 d
Wear	9.5 %
Remaining Lifetime	661 d
Temperature	22.5 °C

Back   Back to Meas.

DIAG

Calibration Record

☺   pH 0.00   7.00   14.00

Date	02/04/20 10:30
Zero Point	pH 6.98
Slope	58.1 mV/pH
Isothermal Voltage	7 mV

Back

DIAG

☐ **Load Diagram**

>80
°C
<2 pH   2...4   4...8   8...11   >11   <10
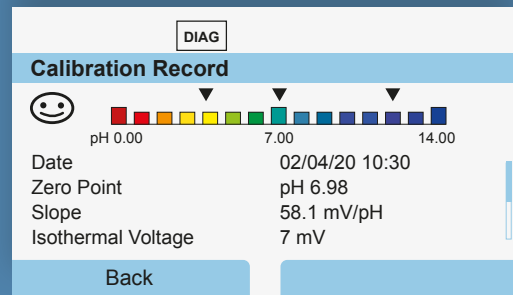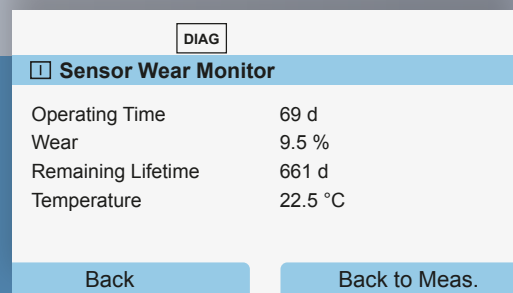
Back

Smart Diagnostics Management

At a glance, users receive information on the sensor's condition and on the remaining lifetime of the connected sensors.

Alongside CIP, SIP, autoclaving counters, and the display elements mentioned above, a sensor diagram facilitates sensor monitoring. All the relevant sensor data, such as zero point, slope, service life, calibration timer, impedance, and response times are clearly presented.

Optimized Maintenance Intervals

Efficient adjustment of calibration intervals using the adaptive calibration timer.
Another new feature, the load diagram, delivers information on which extreme values each sensor was exposed to.

Proven. Robust. Digital.

Reliable operation in all industrial environments with premium EPDM keypad. More dependable than a touchscreen. Rugged and UV-resistant housing with IP67. No protruding control elements.

Compact Housing and Rugged Keypad

Shock-hazard-protected electronics, even with open housing. The large terminal compartment simplifies commissioning of the device. Since all of the electronics are integrated into the front element, the rear unit can easily be removed for direct installation in the enclosure.

The specially sealed, premium EPDM keys, high UV resistance, and IP66/67 protection make installation possible in complex ambient conditions, even outdoors.

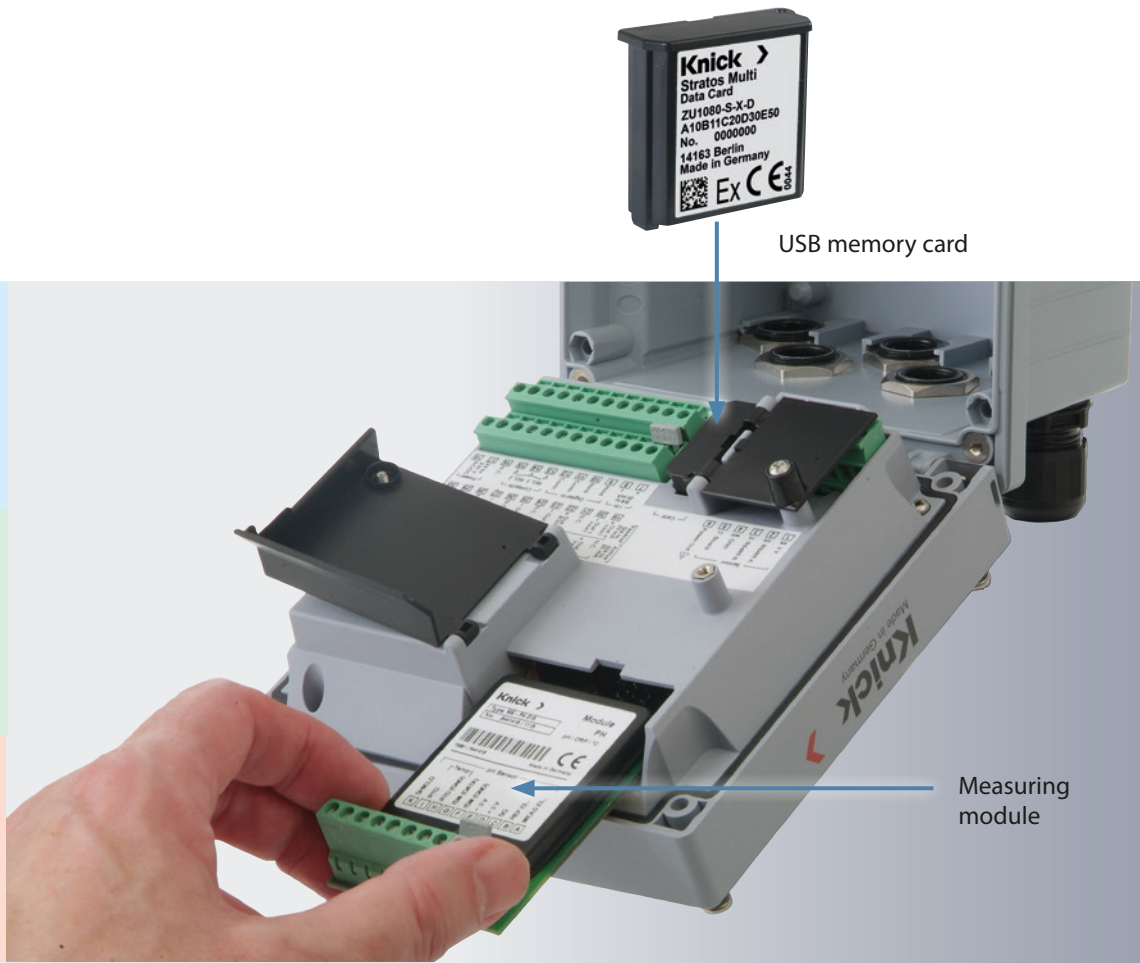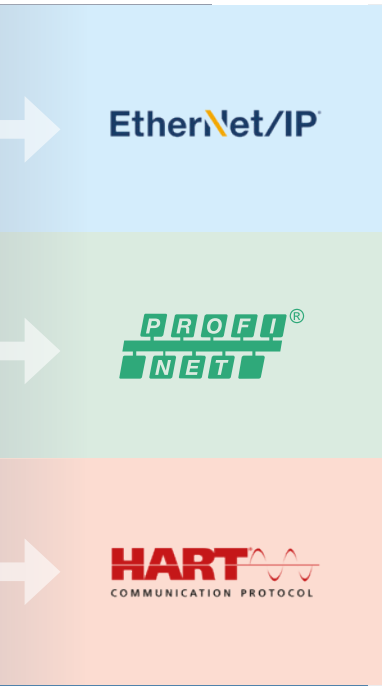Scratch-resistant display cover made of hardened 3-mm safety glass.

Memory Cards with USB

Quick and easy data transfer between device and PC via standardized USB interface.

This makes it easy to distribute and manage measured value records, firmware updates, and device configurations.

The card slot inside the housing makes it possible to connect
– Data Card:
   Memory card for measured values
   and device configurations
– FW Update Card:
   Firmware update
– Firmware Repair Card:
   Simple update of the device firmware on site for
   troubleshooting in case of warranty claims.

USB memory card

Measuring module

Advanced Process Control

Smooth integration in Ethernet fieldbus architecture. Seamless transmission of diagnostics, measurement data, and configurations
– PROFINET
– EtherNet/IP
Proven HART communication also enables integration in process control systems for communication and remote maintenance.

Memosens Sensors

Memosens sensors can easily be used with sensor cables up to 100 meters long. Since Memosens converts measured values and sensor data into digital signals in the sensor head, their transmission is not subject to the attenuation that typically affects analog signals over distance. Electromagnetic interference cannot distort the transmitted values, either.

Everything else you want to know about
interference-free pH, ORP, conductivity,
and oxygen measurement ...

Knick ›

... is available from the Knick Memosens Academy.
Clear practical examples and solutions.
Now. Free. Online.

www.memosens-academy.com

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