Stratos Pro A201 OXY

Firmware History
until Version 3.5.0

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Table of Contents

Firmware History

Version 1.1.0

ISM Sensors
New evaluation method for remaining lifetime (DLI). Wear indication "SENSOR WEAR" has been omitted.
With ISM sensors, the adaptive calibration timer is called "ACT". It is directly managed in the sensor.

Signaling that calibration data are written into the sensor
When calibration data are written into an ISM sensor, the lower display line shows "STORING DATA". At the same time the hourglass blinks.

CONFIG display
In the "SENSOR" configuration menu only "DS" is displayed to identify a digital sensor (ISM, Memosens).

No "A" icon when only one parameter set is used   (PARSET FIX A)

"TRACES 01" trace sensor enabled by TAN

Version 2.0.0

Display when time/date have not been set
If the clock has stopped after prolonged power outage (> 5 days) or has been set to an invalid value, this is signaled as follows:
a) All occurrences of the time display are replaced by dashes.
b) The time in the analyzer remains invalid until the user has set the clock.

Memosens function implemented
Select: Sensor type digital (ISM / MEMOSENS)
Default setting: Memosens

Minimum spans for OXY trace measurement were reduced

Additional device types

New models A201N N MSOXY and A201X-MSOXY for digital oxygen measurement (without module)

Error messages

In the case of an invalid setting of the current input span (I-INPUT) now the "ERR 105: INVALID SPAN I-INPUT" error message will be generated.

When a wrong sensor has been connected (e.g., pH sensor to oxygen analyzer) now "NO SENSOR" is displayed instead of "WRONG SENSOR".

Info icon for sad Sensoface

When Sensoface is "sad", now the **i** icon appears in the measurement display to indicate that an information text can be retrieved.

Version 2.0.1

Default values for product calibration were improved

Clock optimized

Version 3.1.0

Model designation changed

The A211 model designation is replaced by A201 + TAN for HART.

No CIP/SIP entry when switched off

With CIP/SIP COUNT OFF, no CIP/SIP entry is made in the sensor.

Memosens wear evaluation was implemented

Resetting the wear counter (SERVICE)

The wear counter of a Memosens oxygen sensor can be reset in the SERVICE menu after the electrolyte or the membrane have been replaced.

Wear icon suppressed

When Sensocheck is switched off, the Sensoface icon for wear will be suppressed.

Operating Memosens sensors with deviating slope values was optimized

Menu access with lower cursor key only

INFO text

The INFO text in measuring mode is changed to: NO INFO

More display possibilities in measuring mode
Additional measured values can be indicated in the display.
Any desired display can be defined as main display, which will automatically be shown after exiting a function (e.g., after calibration) or in measuring mode after a timeout (60 s).

Displaying the two output currents
The brief display of the two output currents on pressing **enter** has been omitted. The output currents have been added to the regular display options. Their display is accessed by pressing **meas**.

Retrieving the complete tag number [TAG]
When the tag number is retrieved by pressing **meas**, still only the first 10 digits will be displayed. When the TAG is longer than 10 digits, it is marked with an arrow on the margin and can be moved on the display using the [right/left] cursor keys.

Evaluation method for ISM sensors
ACT (Adaptive Calibration Timer), TTM (Time To Maintenance),
DLI (Dynamic Lifetime Indicator), autoclaving counter
Operating time, weighted operating time and remaining lifetime (DLI, Dynamic Lifetime Indicator) are retrieved directly from the sensor.

Diagnostics menu
The following parameters are added to the "MONITOR" display in the Service menu: ACT (adaptive calibration timer), TTM (adaptive maintenance timer), DLI (Dynamic Life Time Indicator).
If the time exceeds 168 h (one week), the display automatically switches to days.

SIP counter also for Memosens

Different polarization voltage for measurement and calibration

Current outputs OUT1/OUT2 triggered by Sensoface alerts
Now, both current outputs OUT1 and OUT2 can also be set to 22 mA by a Sensoface alert (sad Sensoface). This can be separately switched on/off for each current output in the CONFIG menu.

Version 3.1.1

Flow measurement
The unsteady measurement display in the case of low flow rates was stabilized.

Version 3.2.1

Version indication was extended

Hamilton recognized as manufacturer of Memosens sensors

Update of HART interface

Additional parameters were made available via HART commands.

Filter for flow measurement revised

Version 3.2.2

Problem with clock adjustment was fixed

Version 3.4.0

Memosens monitoring was optimized

HART

Bootloader version can be read out via HART.

All active error messages are output via HART command 48:

Command 48 - "Read Additional Device Status"

Limits for minimum current span were removed

IrDA port was disabled

Adjustment, testing, and software update take place via the RS-485 Memosens interface.

Sensor verification with measuring point (TAG) and group of measuring points (GROUP)

Version 3.4.1

Detection of enter key was optimized

Version 3.5.0

Microcontrollers with larger program memory are supported