

A201-CC

ChangeLog

Firmware History

Knick Elektronische Messgeräte GmbH & Co. KG

www.knick.de

Table of Contents

Version 1.0.3.....	2
Version 2.0.0.....	2
Version 2.1.1.....	3
Version 2.1.2.....	3
Version 2.3.0.....	3
Version 2.3.1.....	4
Version 2.4.0.....	4
Version 2.4.1.....	4
Version 2.5.0.....	4

Firmware History

Version 1.0.3

Bug fix for HART commands 148 and 14

When “Meas Mode “USP and “Meas Range “MOhm*cm had been selected, no valid values could be adjusted with command 148.

Execution of command 14 for reading out the serial number of the sensor caused the error message ERR 95.

Display of temperature errors

Now, any temperature error messages will be deleted when temperature measurement is not used any more (TC SELECT OFF).

Version 2.0.0

Model designation changed

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

Temperature compensation

Additional TC compensation for ultrapure water with NaOH traces

Specifying a reference temperature for Sensor A and B with “TC linear“ selected

Flow measurement

For checking and evaluating the flow volume, a pulse-type flow meter can be connected to the CONTROL input.

Characteristic of the output currents

An additional selection between “linear“ and “bilinear“ is provided for configuring the output currents.

Menu access with lower cursor key only

INFO text

The INFO text in measuring mode has been 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** is 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.

Additional selection for CALCULATION

To allow calculating the DAC value (Degassed Acid Conductivity) from two conductivity values, the CALCULATION menu is extended by the “-C8- USER SPEC” calculation.

Version 2.1.1

Filter for flow measurement revised

Version indication was extended

Version 2.1.2

Problem with clock adjustment was fixed

Version 2.3.0

Implementation of the new VGB directive VGB S-006 and calculating the consumption of the ion exchanger

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 2.3.1

Detection of enter key was optimized

Version 2.4.0

Microcontrollers with larger program memory are supported

Version 2.4.1

HART output of measured conductivity values in $\mu\text{S}/\text{cm}$

Version 2.5.0

New: Resetting the cation exchanger consumption in the measuring mode

In the display "Cation exchanger consumption" the cation exchanger consumption can be reset by pressing the Enter key (NEW EXCHANGER: YES).

New: Flow calculation with variable detection interval

The previously fixed acquisition interval for pulse counting of incremental flow meters can now be parameterized (1 ... 20 s).

Change: Input ranges pH variable -C7-

C7: FACTOR 1 value range 0.0001-9.9999 (5 digits, 1 digit less before decimal point)

C7: FACTOR 2 value range 1-9999

C7: FACTOR 3 value range 0.0001-9.9999 (5 digits)

New: Display backlight can be switched off

The display backlighting can be switched off in the parameterization.

Change: Behavior at linear TC and temperature outside measuring range

The Sensoface message "OUT OF INTERNAL TABLE" should no longer be triggered when linear temperature compensation is used.