

A201-COND

ChangeLog
Firmware History

Knick Elektronische Messgeräte GmbH & Co. KG

www.knick.de

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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.

Extended temperature range

The temperature range for Pt100 and Pt1000 is extended to: -50 ... 250 °C

Ni100 temperature probe

An Ni100 temperature probe has been added for selection.

Specifying a reference temperature for "TC linear"

Temperature compensation

Additional TC compensation for ultrapure water with NaOH traces

Extended TC compensation for NaCl

Menu access with lower cursor key only

INFO text

The INFO text in measuring mode has been changed to: NO INFO
For Conc. -01- NaCl, the INFO text has been corrected: -01- NaCl 0-9.99% 0-100°C

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.

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**.

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.

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

Memosens monitoring was optimized

Reference temperature can be entered in °F

Monitoring the sensor lines for breakage

For conductivity measurement without temperature compensation, the sensor line can be monitored by activating the new TEMP CHECK parameter (ON/OFF) in the ALARM menu.

Extended concentration tables for conductivity

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

New adjustment range for current outputs: xxxx mS/cm

Version 2.3.2

Detection of enter key was optimized

Version 2.4.0

Microcontrollers with larger program memory are supported

Version 2.5.0

New: Display backlighting can be switched off

The display backlighting can be switched off in the configuration menu.

New: User-specific concentration table

A user-specific concentration table can be entered.

New: Support for Memosens conductivity 4-pole sensors

Version 2.6.0

Optimization of the production interface (no change in product properties)

Version 2.7.3

New: Multi-point calibration

Analog conductivity sensors can be calibrated or adjusted with two or three points.

New: Calibration values are available as HART Device Variables

New: The status information DeviceStatus and Sensoface are available as HART Device Variables

Bugfix: Measuring unit of the conductance in HART Command 189

The conductance was displayed in Siemens [S] instead of microsiemens [μ S].