

A201-CONDI

ChangeLog
Firmware History

Knick Elektronische Messgeräte GmbH & Co. KG
www.knick.de

Table of Contents

| | |
|--------------------|---|
| Version 1.0.2..... | 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 2.5.0..... | 4 |

Firmware History

Version 1.0.2

Factory settings adapted

Transfer ratio of SE 670 sensor changed from 100 to 120
Logarithmic scaling of current outputs: BEGIN and END adapted

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

Specifying a reference temperature for "TC linear"

Temperature compensation

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

Sensor model SE680*M with Memosens protocol was implemented

Extended measuring range: 000.0 ... 999.9 μ S/cm

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 options for temperature compensation for ultrapure water

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

Sensor type selection was optimized

Version 2.4.0

Microcontrollers with larger program memory are supported

Version 2.5.0

New: Calibration of inductive conductivity installation factor

For inductive conductivity Memosens sensors the installation factor calibration is available.

New: Display backlight can be switched off

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

New: User-specific concentration table

A user-specific concentration table can be entered.