

Process Analysis Systems

Chem

Energy

Pharm

Food

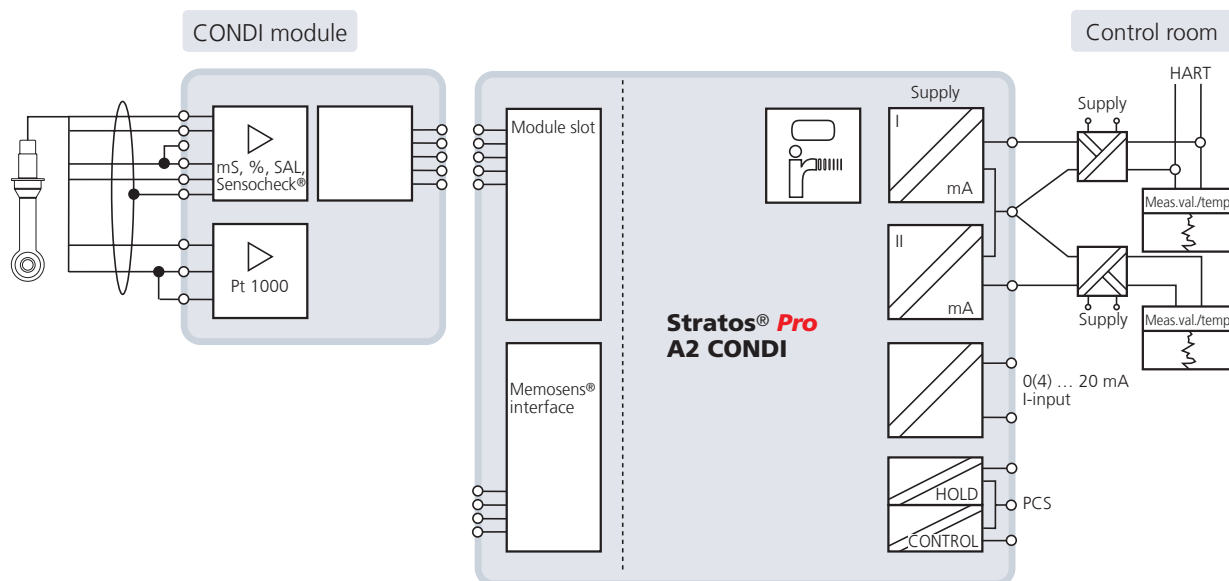
Water

Stratos® Pro A2 CONDI

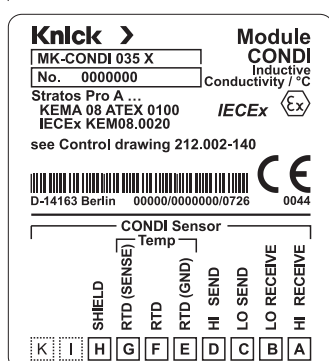
Connection

Connection of CONDI module with electrodeless sensors

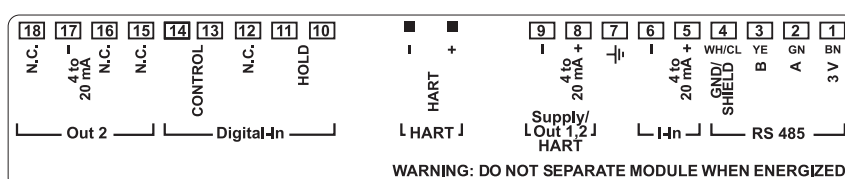
Model used: Stratos® Pro A201N-CONDI-1



Terminal Assignments of Stratos® Pro CONDI Module



Terminal Assignments of Stratos® Pro 2-Wire Devices



Specifications

Inputs

Conductivity

input for electrodeless conductivity sensors

Effective ranges

conductivity 0.000 ... 1999 mS/cm
concentration 0.00 ... 100.0 % by wt
salinity 0.0 ... 45.0 ‰

Temperature compensation*)
(reference temperature 25 °C)

linear 00.00 ... 19.99 %/K (user-defined reference temperature)
NaCl from 0 to 26 % by wt (0 ... 120 °C)
natural waters to EN 27888

Concentration determination

NaCl 0–26 % by wt (0 °C) ... 0–28 % by wt (100 °C)
HCl 0–18 % by wt (–20 °C) ... 0–18 % by wt (50 °C)
NaOH 0–13 % by wt (0 °C) ... 0–24 % by wt (100 °C)
H₂SO₄ 0–26 % by wt (–17 °C) ... 0–37 % by wt (110 °C)
HNO₃ 0–30 % by wt (–20 °C) ... 0–30 % by wt (50 °C)
H₂SO₄ 94–99 % by wt (–17 °C) ... 89–99 % by wt (115 °C)
HCl 22–39 % by wt (–20 °C) ... 22–39 % by wt (50 °C)
HNO₃ 35–96 % by wt (–20 °C) ... 35–96 % by wt (50 °C)
H₂SO₄ 28–88 % by wt (–17 °C) ... 39–88 % by wt (115 °C)
NaOH 15–50 % by wt (0 °C) ... 35–50 % by wt (100 °C)

Temperature

Pt 100 / Pt 1000 / NTC 30k

Measuring range

Pt: –50.0 ... +250.0 °C (–58.0 ... +482.0 °F)
NTC: –20.0 ... +150.0 °C (–4.0 ... +302.0 °F)

Current input (TAN)

analog, 0/4 ... 20 mA for external temperature signal

HOLD input, digital

0 ... 2 V (AC/DC) HOLD inactive
10 ... 30 V (AC/DC) HOLD active

CONTROL input, digital

parameter set selection 0 ... 2 V (AC/DC) parameter set A
10 ... 30 V (AC/DC) parameter set B

flow

pulse amplitude 10 ... 30 V DC
pulse input for flow measurement 0 ... 100 pulses/s
display: 00.00 ... 99.99 l/h
message via 22 mA, alarm contact or limit contacts

Outputs

Output 1, Output 2

4 ... 20 mA current loops, 22 mA for error message,
HART communication (TAN) at output 1,
supply voltage 14 ... 30 V

Process variable*)

conductivity, concentration, salinity, or temperature

Characteristic

linear, bilinear, or logarithmic

Output filter*)

PT₁ filter, filter time constant: 0 ... 120 s