PRODUCT OVERVIEW

2017

NIVELCO

75 YEARS ANNIVERSARY

3 YEARS WARRANTY @ NIVELCO
WHERE ELSE?

LEVEL TRANSMITTERS

- PiloTREK
- MicroTREK
- EchoTREK
- EasyTREK
- NIVOCAP
- NIVOPRESS N
- NIVOPRESS D
- NIVOTRACK
- NIVOFLIP

LEVEL SWITCHES

- NIVOCAP CK
- NIVOCONT K
- NIVOMAG
- NIVOPOINT
- NIVOSWITCH
- NIVOCONT R
- NIVOROTA
- NIVOFLOAT

ANALYTICS

- AnaCONT LEP/LER
- AnaCONT LCK
- AnaCONT LED

TEMPERATURE

- THERMOCONT TT
- THERMOPOINT

SENSORS

- MICROSONAR
- NIPRESS

SYSTEM COMPONENTS

- MultiCONT
- UNICONT PMM/PMG
- UNICONT PD
- UNICONT PKK
- UNICONT PJK
- UNICONT PGK
- UNICONT PSW
- UNICOMM

SOFTWARE

- NIVISION
- EView2

OPERATING
PRINCIPLE

FEATURES

APPLICATION

SPECIFICATION

PRODUCT

OUR PROFESSION

LEVEL TRANSMITTERS

NON-CONTACT MICROWAVE COMPACT

- 2-wire compact transmitter
- 25 GHz (K-band) measuring signal
- Non-contact level metering
- Accuracy up to ±3 mm
- Measuring range up to 23 m
- Plug-in graphic display module
- HART communication
- 99-point linearisation
- Plastic, aluminium or stainless steel housing
- Stainless steel parabolic, horn or plastic enclosed antenna
- High temperature range
- IP67 protection
- Explosion-proof models

- Level measurement of liquids, dollops, emulsions and other chemicals
- Water, wastewater industry
- Pharmaceutical industry, chemical industry
- Food-industry
- Energy-industry

Power supply:
20–36 V DC
Ambient temperature:
-20 °C … +60 °C
Process temperature:
-30° C … +180 °C
Pressure: -1 bar to 25 bar
Output: 4-20 mA + HART
Process connection:
1 ½", 2" or flanges or sanitary
Protection: IP67
Approvals: ATEX Ⓔx, IEC Ex, FCC

PiloTREK

NON-CONTACT MICROWAVE INTEGRATED

- 2-wire integrated transmitter
- 25 GHz (K-band) measuring signal
- Non-contact level metering
- Accuracy up to ±3 mm
- Measuring range up to 23 m
- HART communication
- 99-point linearisation
- Plastic housing
- Stainless steel horn or plastic enclosed antenna
- IP68 protection
- Explosion-proof models

- Level measurement of liquids, dollops, emulsions and other chemicals
- Water, wastewater industry
- Chemical industry
- Where IP68 is needed

Power supply:
20–36 V DC
Ambient temperature:
-20 °C … +60 °C
Process temperature:
-30 °C … +100 °C
Pressure: -1 bar to 3 bar
Output: 4-20 mA + HART
Process connection:
1 ½", 2" or flanges or sanitary
Protection: IP68
Approvals: ATEX Ⓔx, IEC Ex, FCC

PiloTREK

GUIDED MICROWAVE

- 2-wire compact transmitter
- Accuracy: ±5 or ±20 mm
- Measuring range up to 24 m
- High pressure
- High temperature range
- Wide range of probes
- Extremely low dead band
- 20-point linearisation
- HART communication
- Rod or cable probes
- Plug-in graphic display module
- Explosion-proof models
- Plastic, aluminium or stainless steel housing

- Level, distance or volume measurement
- Liquids, powders, granules with $\varepsilon_r > 1.4$
- Medium with turbulent surface, dense dust, vapour or pressurized gas layers above the product surface
- For all tank shapes, for narrow vessels
- Heavy industrial applications

Power supply: 24 V DC,
Ambient temperature:
-30 °C … +60 °C
Process temperature:
-30 °C … +200 °C
Pressure: 0 to 40 bar
Measuring range:
0–24 m
Output: 4-20 mA + HART
Protection: IP67
Approvals: ATEX Ⓔx, IEC Ex

MicroTREK

ULTRASONIC COMPACT

- 2- or 4-wire compact transmitter
- Non-contact level metering
- Narrow 5° beam angle
- Temperature compensated
- Excellent signal processing via QUEST+ software
- PP, PVDF, PTFE, stainless steel or foam faced transducers
- Plug-in display module
- Secondary lightning protection
- HART communication
- Datalogger feature
- Power relay output
- Explosion-proof models

- Almost any liquids or free flowing solids
- Level, volume and open channel flow
- Reliable measurement in challenging applications such as vapour/fume stirrer, foam with liquids or dusting during filling with solids

Power supply:
2-wire: 12–36 V DC
4-wire: 85–255 V AC, 11.4–40 V DC, 11.4–28 V AC, 20–28 V AC/DC
Ambient temperature:
-30 °C … +70 °C
Process temperature:
-30 °C … +100 °C
Pressure (absolute):
0.05 to 0.3 MPa (0.5 to 3 bar)
Measuring range:
0.2–25 m for liquids
0.6–60 m for solids
Output: 4-20 mA, HART
Protection: IP67
Approval:
ATEX Ⓔx

EchoTREK

ULTRASONIC INTEGRATED

- 2- or 4-wire integrated transmitter
- Non-contact level metering
- Low cost
- Narrow 5° beam angle
- Temperature compensated
- Excellent signal processing via QUEST+ software
- PP, PVDF housing
- Secondary lightning protection
- HART communication
- Datalogger feature
- Power relay output
- Explosion-proof models

- Most liquids and solids
- Level, volume and open channel flow
- Reliable measurement in challenging applications such as vapour/fume stirrer and foam with liquids or dusting during filling with solids
- Where IP68 is needed

Power supply:
2-wire: 12–36 V DC
4-wire: 11.4–40 V DC, 11.4–28 V AC
Ambient temperature:
-30 °C … +80 °C
Process temperature:
-30 °C … +90 °C
Pressure (absolute):
0.05 to 0.3 MPa (0.5 to 3 bar)
Measuring range:
0.2–25 m for liquids
0.6–60 m for solids
Output: 4-20 mA, HART
Protection: IP68, IP65
Approval: ATEX Ⓔx

EasyTREK

I S Y O U R L E V E L

LEVEL TRANSMITTERS

CAPACITIVE

- 2-wire compact transmitter
- High sensitivity
- Rod or cable probes up to 20 m
- Plastic, aluminium or stainless steel housing
- Fully or partly insulated probes
- Plug-in display module
- 32-point linearisation
- Distance, level and volume measurement
- HART communication
- Explosion-proof models

- Liquids, powders, granules with ε_r > 1.5 relative dielectric constant
- Chemicals with dense gas layers above the surface
- Viscose or corrosive mediums
- High pressure, high temperature or vacuum

Power supply: 12–36 V DC
Ambient temperature: -25 °C … +70 °C
Process temperature: -30 °C … +200 °C
Pressure: max. 40 bar
Output: 4-20 mA, HART
Process connection: 1", 1 ½"
Protection: IP67
Approval: ATEX

NIVOCAP

HYDROSTATIC

- 2- or 3-wire submersible transmitter
- Capacitive ceramic, piezoresistive stainless steel and piezoresistive ceramic sensor
- Plastic or stainless steel body
- Venting tube in cable
- Up to 200 m range
- Reverse polarity protection
- Optional lightning protection
- Linearity: ±0.25%
- Incorporated Pt100 temperature sensor
- HART communication
- Explosion-proof models

- Borehole transmitter for the water industry
- Small diameter pipes
- Sewage water
- Saline solutions, sea water

Power supply: 12–30 V DC
Process temperature: -10 °C … +60 °C
Measuring range: 0–200 m
Output: 4-20 mA + HART or 0-10 V
Protection: IP68
Approval: ATEX

NIVOPRESS N

HYDROSTATIC

- 2-wire compact transmitter
- Stainless steel diaphragm
- Accuracy: 0.25%
- High overload capability
- Level and pressure management
- HART communication
- Plug in display module
- High temperature range
- Explosion-proof models

- Most liquids and masses in tanks and vessels
- Chemicals with dense vapour or gas layers above the surface
- Foaming liquids
- Viscous or corrosive materials

Power supply: 12–36 V DC
Ambient temperature: -40 °C … +75 °C
Process temperature: -25 °C … +125 °C
Pressure: max. 400 bar
Output: 4-20 mA, HART
Process connection: 1 ½" or flanges or hygienic fittings
Protection: IP65
Approval: ATEX

NIVOPRESS D

MAGNETO-STRICTIVE

- 2-wire compact and mini compact transmitter
- 0.1 mm or 1 mm resolution
- Rigid or flexible probes up to 15 m
- Wetted parts: stainless steel or plastic
- Plug-in graphic display module
- 99-point linearisation
- Distance, level and volume measurement
- HART communication
- Explosion-proof models

- Liquids with min. 0.4 kg/dm³ density
- Chemicals, solvents, hydrocarbons
- Flammable liquids
- Interface metering
- Custody transfer (OIML R-85)

Power supply: 12–36 V DC
Ambient temperature: -40 °C … +70 °C
Process temperature: -40 °C … +90 °C
Pressure: max. 25 bar
Measuring range: 0–15 m
Output: 4-20 mA, HART
Process connection: 1", 2" or flanges
Protection: IP67
Approvals: ATEX, FM, IEC Ex, CSA, OIML R-85

NIVOTRACK

BYPASS LEVEL INDICATOR

- Operation without power supply
- Brightly coloured indication
- Stainless steel bypass chamber
- Error indication
- Optional clamp on level switches
- Optional strap-on magnetostrictive level transmitter
- 10 mm accuracy
- Stainless steel or titan float
- High temperature version

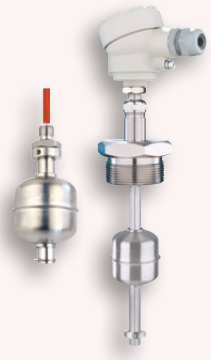
- Boilers
- Pressurized process tanks
- Condensators
- Oil and gas industry
- Chemical industry

Flange distance: 500–5500 mm
Process connection: DIN, ANSI flanges
Pressure: max. 100 bar
Process temperature: -40 °C … +250 °C
Medium density: 0.6–1.2 kg/dm³
Approvals: PED approval, ATEX: MAK-100 level switches

NIVOFLIP

OUR PROFESSION

LEVEL SWITCHES

	RF – CAPACITANCE	CONDUCTIVITY	MAGNETIC COUPLING	MAGNETIC TRACKING
OPERATING PRINCI PLE				
FEATURES	▪ Intelligent electronic level switch ▪ Build-up immunity ▪ Easy calibration ▪ Selectable sensitivity ▪ Fail-safe operation mode ▪ Rod or cable extended versions ▪ High temperature version ▪ Dust-Ex models	▪ Low cost level switch ▪ Limit switch or differential switch versions ▪ Adjustable sensitivity ▪ Adjustable time delay ▪ High or low fail-safe mode ▪ All wetted parts stainless steel ▪ Compact unit with two independent relays ▪ Separate probe and relay unit ▪ Rod probes up to 3 m	▪ Operation without power supply ▪ Micro-switch separated from the process ▪ All wetted parts stainless steel ▪ Side or top mounting ▪ Fixed or adjustable switch differential ▪ Submersible versions ▪ Various process connections ▪ Operational check via optional tester ▪ Flame-proof models ▪ SIL approval	▪ Operation without power supply ▪ Reed switches separated from process ▪ Wetted parts stainless steel or plastic ▪ Up to 5 switch points ▪ Vertical adjustability of all switch points ▪ Various process connections ▪ Flame-proof models
APPLICATION	▪ For solids with $\varepsilon_r \geq 1.5$ and liquids ▪ For high viscosity, sticky materials ▪ Pharmaceutical and food industry ▪ Power generation processes	▪ Conductive liquids with min. $1x10^{-5}$ S/cm conductivity ▪ Fail-safe indication and pump control ▪ Chemical and water industry	▪ Liquids with min. 0.7 kg/dm³ density ▪ Fail-safe and control level switches in closed tanks ▪ Power stations, chemical, petrochemical and pharmaceutical industry ▪ Balance tanks on ships	▪ Liquids with minimum 0.4 or 0.8 kg/dm³ density ▪ Multi-point level switch in closed tanks ▪ Chemicals with dense vapour or gas layer above the surface ▪ Foaming liquids
SPECIFICATION	**Power supply:** 20–255 V AC/DC **Ambient temperature:** -30 °C ... +65 °C **Medium temperature:** -30 °C ... +235 °C **Pressure:** max. 25 bar **Process connection:** ¾", 1", 1 ½" **Output:** Relay (SPDT) or electronic switch (SPST) **Protection:** IP67 **Approvals:** ATEX ⟨Ex⟩, IEC Ex	**Switch rating:** 250 V AC, 16 A or 8 A **Power supply:** 24 V AC/DC, 110, 230 V AC **Ambient temperature:** -20 °C ... +50 °C **Process temperature:** max. +200 °C **Pressure:** max. 16 bar **Process connection:** ⅜", 1 ½" **Protection:** IP65/IP67, IP20	**Switch rating:** 250 V AC, 10 A NO/NC **Ambient temperature:** -20 °C ... +80 °C **Process temperature:** -40 °C ... +250 °C **Pressure:** max. 25 bar **Process connection:** flanges or 2" thread **Protection:** IP65, IP68 **Approvals:** ATEX ⟨Ex⟩, Germanischer Lloyd (GL), Det Norske Veritas (DNV), Bureau Veritas (BV), SIL1	**Switch rating:** 250 V AC, 3 A **Ambient temperature:** -40 °C ... +100 °C **Process temperature:** -40 °C ... +150 °C **Pressure:** max. 25 bar **Process connection:** 1" or 2" or flanges **Protection:** IP65, IP68 **Approvals:** ATEX ⟨Ex⟩, Bureau Veritas (BV)
				
PRODUCT	NIVOCAP CK	NIVOCONT K	NIVOMAG	NIVOPOINT

I S Y O U R L E V E L

LEVEL SWITCHES

VIBRATION FORK FOR LIQUIDS

- No moving parts
- Self-cleaning for most mediums
- High immunity against vibrations
- Stainless steel and plastic coated probes
- Solid rod extension up to 3 m
- Various output configurations
- High or low fail-safe mode
- Plastic, aluminium or stainless steel housing
- Explosion-proof models

- Most liquids with min. 0.7 kg/dm^3 density and max. 10^4 mm^2/s viscosity
- Corrosive, thick, turbulent, flowing liquids

Power supply:
20–255 V AC,
20–60 V DC
Ambient temperature:
-40 °C … +70 °C
Process temperature:
-40 °C … +130 °C
Pressure: max. 40 bar
Process connection:
1" or flanges or hygienic fittings
Output: 1 or 2 SPDT relays, 2-wire AC or DC, transistor (PNP, NPN)
Protection: IP67, IP68
Approvals: ATEX Ⓔx, EC approved (Ex d), Germanischer Lloyd (GL), FM, CSA

NIVOSWITCH

VIBRATION FORK FOR SOLIDS

- No moving parts
- Self-cleaning for most mediums
- High immunity against vibrations
- Stainless steel probes
- Solid rod extension up to 3 m
- Various output configurations
- Selectable density
- High or low fail-safe mode
- Plastic, aluminium or stainless steel housing
- Dust-Ex models

- Granular material and powder with min. 0.01 kg/dm^3 bulk density

Power supply:
20–255 V AC, 20–60 V DC
Ambient temperature:
-40 °C … +70 °C
Process temperature:
-40 °C … +130 °C
Pressure: max. 40 bar
Process connection:
1", 1 ½"
Output: 1 or 2 SPDT relays, 2-wire AC or DC, transistor (PNP, NPN)
Protection: IP67, IP68
Approval: ATEX Ⓔx

NIVOSWITCH

VIBRATION ROD

- No moving parts
- Self-cleaning for most mediums
- Stainless steel vibrating section
- Solid rod or flexible cable extension up to 20 m
- Plastic or aluminium housing
- Selectable density
- High or low fail-safe mode
- Selectable switching delay
- Dust-Ex models

- Granular material and powder with min. 0.05 kg/dm^3 bulk density
- Grain, flour, plastic granules, cement, fly ash, etc

Power supply:
20–255 V AC/DC
Ambient temperature:
-30 °C … +60 °C
Process temperature:
-30 °C … +160 °C
Pressure: max. 25 bar
Process connection: 1 ½"
Output: Relay (SPDT) or electronic switch (SPST)
Protection: IP67
Approvals: ATEX Ⓔx, IEC Ex

NIVOCONT R

ROTARY PADDLE

- Plastic or aluminium housing
- Long service time
- Motor shut-off feature
- Flexible coupling
- Rod or cable extended versions up to 3 m
- Sealed bearings
- High temperature version
- True fail-safe version
- Dust-Ex models

- Granular material and powder with min. 0.1 kg/dm^3 density
- High or low fail-safe
- Feed, coal, sand, rocks, limestone, metals, rubber

Power supply: 24 V AC/DC, 120 V AC, 230 V AC
Ambient temperature:
-30 °C … +60 °C
Process temperature:
-20 °C … +200 °C
Pressure: max. 3 bar
Process connection:
BSPT 1", 1 ½", mounting plate
Output: Relay 250 V AC, 10A
Protection: IP67
Approval: ATEX Ⓔx

NIVOROTA

FLOAT

- Operation without power supply
- Low cost polypropylene level switch
- Hermetically moulded, double chamber
- Mercury free operated micro switch
- Adjustable switch differential
- Low specific weight of the floating body

- Level switch from potable water to sewage
- Suitable also for tanks and basins
- Fail-safe indication and pump control

Switch rating:
250 V AC, 10(3) A
Process temperature:
0 °C … +50 °C
Pressure:
max. 1 bar
Protection:
IP68

NIVOFLOAT

O U R P R O F E S S I O N

ANALYTICS

TEMPE-

OPERATING PRINCIPLE	pH / ORP TRANSMITTERS	CONDUCTIVITY TRANSMITTERS	DISSOLVED OXYGEN TRANSMITTER	TEMPERATURE INDICATOR / TRANSMITTER
FEATURES	▪ 2-wire compact and integrated transmitter ▪ Plug-in graphic display module ▪ Blind version with IP68 protection ▪ Separated version up to 10 m ▪ Temperature compensated ▪ Application oriented probes ▪ Wide selection of accessories ▪ HART communication ▪ Power relay output, programmable ▪ Explosion-proof models	▪ 2-wire mini compact transmitter ▪ Wide range of measurement (1 µS – 2 mS) ▪ Plug-in display ▪ IP68 protection ▪ Wide selection of accessories ▪ HART communication	▪ 2-wire compact transmitter ▪ Plug-in graphic display module ▪ Separated version up to 10 m ▪ Temperature compensated ▪ HART communication ▪ Power relay output, programmable ▪ Wide selection of accessories ▪ Explosion-proof models	▪ 2-wire compact temperature display, transmitter ▪ Integral Pt100 probe ▪ Fully programmable ▪ Plug-in display module ▪ Probe length up to 3 m ▪ Aluminium or plastic housing ▪ Heavy duty field mountable housing ▪ HART communication ▪ Explosion-proof models
APPLICATION	▪ Water wastewater ▪ Water processing ▪ Water purification ▪ Chemical industries ▪ Pharmaceutical industries ▪ Food and beverage industries	▪ Drinking water production ▪ Water processing ▪ Water purification ▪ Swimming pools ▪ Pharmaceutic and chemical industries ▪ Food and beverage industries	▪ Water, wastewater ▪ Aeration processes ▪ Apprising the quality of surface waters ▪ Pharmaceutic and chemical industries ▪ Food and beverage industries	▪ Tanks, vessels, pipelines ▪ Liquid and gaseous mediums ▪ Where local indication is required ▪ Transmission to long distances (4-20 mA, HART)
SPECIFICATION	**Power supply:** 12–36 V DC **Ambient temperature:** -30 °C ... +70 °C **Medium temperature:** -15 °C ... +100 °C **Pressure:** max. 16 bar **Measuring range:** pH: 0–14 pH ORP: +/-1000 mV **Output:** 4-20 mA, relay, HART **Protection:** IP67, IP68 **Approval:** ATEX	**Power supply:** 12–36 V DC **Ambient temperature:** 0 °C ... +70 °C **Medium temperature:** -10 °C ... +70 °C **Pressure:** max. 16 bar **Measuring ranges:** 1 µS/cm – 20 µS/cm 10 µS/cm – 200 µS/cm 100 µS/cm – 2000 µS/cm **Output:** 4-20 mA, HART **Protection:** IP65/IP68	**Power supply:** 12–36 V DC **Ambient temperature:** -30 °C ... +70 °C **Medium temperature:** 0 °C ... +50 °C **Pressure:** max. 1 bar **Measuring ranges:** 0–10 ppm 0–20 ppm **Output:** 4-20 mA, relay, HART **Protection:** IP67, IP68 **Approval:** ATEX	**Measuring range:** -50 °C ... +600 °C **Power supply:** 10–36 V DC **Ambient temperature:** -40 °C ... +70 °C **Pressure:** max. 25 bar **Output:** 4-20 mA, HART **Protection:** IP65 **Approval:** ATEX
PRODUCT	AnaCONT LEP / LER	AnaCONT LCK	AnaCONT LED	THERMOCONT TT

I S Y O U R L E V E L

RATURE

SENSORS

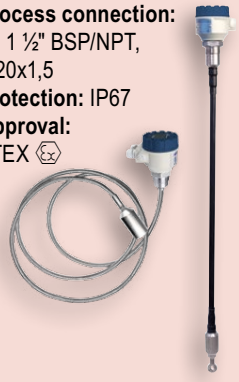
SYSTEM

MULTIPOINT TEMPERATURE TRANSMITTER

- 2-wire multipoint temperature transmitter
- HART communication
- Digitally addressed sensors
- Replaceable sensors
- System capability
- Max. 30 m probe length
- Max. 15 sensors
- Intrinsically safe and Dust-Ex models

- Temperature measurement of powdered, granular solids or liquids
- Agricultural storage silos
- Silos of grain mills
- Food industry
- Animal feed industry
- Temperature trend monitoring

Measuring ranges:
In liquids:
-40 °C … +125 °C
In solids:
-10 °C … +85 °C
Power supply: 12–36 V DC
Ambient temperature:
-30 °C … +65 °C
Probe length:
Rigid probe: 1–4 m
Flexible probe: 2–30 m
Accuracy: ±0.5 °C
Output: 4-20 mA + HART
Process connection:
1", 1 ½" BSP/NPT, M20x1,5
Protection: IP67
Approval:
ATEX



THERMOPOINT

ULTRASONIC PROXIMITY SENSOR

- Non-contact distance metering
- Analogue or switch output
- Narrow 5° beam angle
- Fully temperature compensated
- Metal or PP body
- Magnet or cable programming
- Short circuit and reverse polarity protection
- Status indication LED
- Maintenance-free

- Position, distance detection used in packaging equipment
- Monitoring of:
  - Filling equipment
  - Small transport vehicles
  - Trolleys
  - Fork-lifts
  - Material or object detection on conveyor belts

Power supply:
10.8–30 V
Ambient temperature:
-20 °C … +70 °C
Ranges:
0.2–1 m or 0.4–6 m
Output: 0-10 V, 4-20 mA, NPN or PNP switch
Protection:
IP67, IP68

MICROSONAR

PRESSURE TRANSMITTER

- Compact size
- Stainless steel or aluminum housing
- Gauge or absolute pressure
- Fast output response
- Standard plug type connector
- Wide range of process connections and diaphragms
- Sanitary process connections

- Pressure measurement of liquids, gases
- Tanks, pipelines, pressurized vessels
- Simple level metering for non-pressurized vessels
- For differential pressure measurement

Power supply: 12–36V DC
Temperature:
-25 °C … +300 °C
Measuring range:
-1 to 600 bar
Accuracy: 0.1% or 0.5%
Process connection:
¼", ½", 1", triclamp
Output: 4-20 mA, 0-10 V
Protection: IP65, IP67
Approval: ATEX

NIPRESS

MULTICHANNEL PROCESS CONTROLLER

- Programmer, display and controller for transmitters with HART protocol
- Highly informative backlit liquid crystal display
- Tank visualisation
- Simple 6-key programming
- 1 to 15 input channels
- Datalogger memory: Built-in 4 MB Flash memory SD Card slot: max. 2 GB
- Transmitter diagnostic capabilities
- Explosion-proof models

- Programmer, indicator and controller for single transmitters and for transmitter groups

Power supply: 11.4–40 V DC, 11.4–28 V AC or 85–255 V AC
Ambient temperature:
-20 °C … +50 °C
Input from transmitters: HART
Outputs, internal:
max. 2 4-20 mA
max. 2 RS485
max. 5 SPDT relays
Outputs, external:
max. 16 4-20 mA
max. 2 RS485
max. 64 SPDT relays
Communication with host:
RS485
Storage medium: SD Card Flash Memory –> USB
Protection: IP65
Approvals: ATEX, IEC Ex

MultiCONT

UNIVERSAL PROCESS CONTROLLER / INDICATOR

- Dual LED display, 4 digits
- Universal input: Thermo-couple: K, J, T, E, L, U, N, R, S, B, M, A, C, RTD's: Pt100, JPt100, Ni 100 Current: 4-20 mA, 0-20 mA Voltage: -5+20 mV, 0-100 mV, 0-10 mV Resistance: 0-500 Ω, 0-2000 Ω
- ON-OFF, PD or PID control
- Auto tuning
- 32 point linearization
- Transmitter power supply
- Up to 3 power relays
- 4-20 mA output
- Displaying of process values
- Heating / cooling control
- Alarm

- Displaying of process values
- Heating / cooling control
- Alarm

Power supply:
100–240 V AC
20–48 V AC
22–65 V DC
Ambient temperature:
-10 °C … +55 °C
Input: universal
Output:
Relay, 4-20 mA, RS485, power supply for transmitters, SSR driver
Display:
dual 4 digits LED display
Protection: IP20/IP66

UNICONT PMM, PMG

COMPONENTS

LOOP INDICATOR

- 4-20 mA loop operated
- Operation without external power supply
- Field display for transmitters
- Scalable display
- 6 digits reflective LCD display
- 20 mm digit height
- 4-20 mA to HART converter version
- Heavy duty field mountable housing
- Stainless steel housing
- Explosion-proof models

- Universal field indicator for any transmitters
- Selectable physical parameter set
- Display of process values supplied by any transmitter
- If used as HART converter, powers 2-wire transmitters

Power supply: 24 V DC
Ambient temperature:
-40 °C … +70 °C
Input: 4-20 mA
Output: 4-20 mA,
4-20 mA + HART
Display: 6 digits LCD
Protection: IP67
Approval: ATEX

UNICONT PD

CURRENT CONTROLLED SWITCH MODULE

- Suitable interface for devices having 4-20 mA or on-off outputs
- Can power 2-wire transmitters
- Galvanic isolation
- 4-20 mA input
- Power relay (SPDT) output
- Limit, differential or window switch capabilities
- Programmable damping
- Explosion-proof models

- Power supply and switching amplifier for 2-wire transmitters
- Switching amplifier for 4-wire active transmitters
- Dedicated switching amplifier version for the RC-400 range of Ex rated vibrating forks
- Wire state monitoring
- ON-OFF control

Power supply:
110 V, 230 V AC, 24 V AC/DC
Ambient temperature:
-10 °C … +55 °C
Input:
4-20 mA
Switch rating:
250 V AC, 8A, AC1
Protection: IP20
Process connection:
DIN rail mounted
(module width: 36 mm)
Approval: ATEX

UNICONT PKK

UNIVERSAL INTERFACE MODULE

- Universal expander module for:
  – MultiCONT process controller
  – automated systems operating on RS485
  – PLC process control systems
- RS485 communication
- 4-20 mA current outputs
- Programmable relay outputs
- DIN rail mountable

- Expanding a process control system with 2 relays or 2 current outputs
- For mixed systems: with 1 relay and 1 current output version
- Provides galvanic isolation

Power supply:
24 V DC
Ambient temperature:
-10 °C … +50 °C
Input:
RS485 Interface
Output:
– 2 relay 250 V AC, 8A, AC1
– 2 current outputs (4-20 mA)
– 1 relay + 1 current output
Process connection:
DIN rail mounted
(module width: 36 mm)
Protection: IP20

UNICONT PJK

INTRINSICALLY SAFE ISOLATOR MODULE

- Isolated power supply for intrinsically safe transmitters
- 4-20 mA, HART communication
- Up to 1 µA transmission accuracy
- Up to 5 ms response time
- DIN rail mountable
- Compatible with all devices using standard HART communication

- For high precision transmitters
- For transmitters operating in hazardous applications
- For supplying and isolating certified measurement instruments

Power supply: 20–35 V DC
Output voltage: 24 V DC
Ambient temperature:
-20 °C … +60 °C
Input: 4-20 mA + HART
Output: 4-20 mA + HART
Accuracy: 1 µA or 8 µA
Response time:
5 ms or 100 ms
Process connection:
DIN rail mounted
(module width: 22.5 mm)
Protection: IP20
Approval: ATEX, IEC Ex

UNICONT PGK

SYSTEM COMPONENTS

ULTRASONIC PUMP CONTROL SYSTEM

- Low cost automatic pump control system
- Ultrasonic level measurement
- 0.4–3 m measurement range
- Programmable pump cycling
- Optional dry-run or overfill protection
- Maintenance-free
- Max. 1 kW switching rate
- Motor or cable protection
- Submersible sensor
- Incorporated circuit breaker

- Domestic sewage shafts, wetwells
- Controlling of one-phase pumps (max. 1 kW)
- Sumps, tanks, flood storages
- Drainage sumps, pools

Power supply: 230 V AC
Ambient temperature:
(Control unit)
-25 °C … +45 °C
Process temperature:
(Ultrasonic transmitter)
-25 °C … +60 °C
Output: 1 relay NC contact, 250 V AC, 8A, AC1
Process connection:
Control unit: wall mountable
Ultrasonic transmitter: 1"
Protection:
Control unit: IP65
Ultrasonic transmitter: IP68

UNICONT PSW

COMMUNICATION MODULE

- Communication interface (modem) between HART-capable transmitters and PC
- DIN rail mountable or test clip connector version
- No need for power supply when using USB output
- Galvanic isolation
- Explosion-proof models

- Transferring measurement data to PC
- Connecting field transmitters to the USB or RS485 input of a PC

Power supply:
supplied from USB / 24 V DC
Input:
HART
Output:
USB/RS485
Protection:
IP20
Approval: ATEX

UNICOMM

SOFTWARE

PROCESS VISUALISATION

- Communication with intelligent transmitters or switches and controllers
- Tank configuration
- Transmitter configuration
- Real-time trend analysis
- Data logging
- Database handling
- Archiving
- “Web-Ready” symbols and animations
- Remote connection on the Internet

- Custom-tailored software for industrial process visualization
- Online monitoring of measured values
- Tank-farm visualization
- Alarm systems
- Inventory management

Requirements:
Operating system:
Microsoft Windows 2000, XP, Windows Vista, Windows 7
Input port:
RS232, RS485 or USB
Free disk space:
5 GB

NIVISION

HART CONFIGURATION SOFTWARE

- Remote programming and querying measurement data for up to 15 HART-capable transmitters in one multidrop loop
- Handling linearization table entries
- Echo Map displaying
- Sensor calibration
- Measurement data monitoring
- Handling multiple HART modems

- For easy setting-up and configuration
- Remote programming
- Displaying measurement data
- Error detection
- Limited trend monitoring

Operation system:
Windows XP, Vista, Windows 7 and 8
Required free space:
100 MB
Memory:
512 MB RAM
HART Modem:
UNICOMM SAT-304, SAK-305

EView2