

PRODUCT OVERVIEW

2013

3 YEARS WARRANTY @ NIVELCO – WHERE ELSE?

NIVELCO

L E V E L T R A N S M I T T E R S

OPERATING PRINCIPLE

FEATURES

APPLICATION


SPECIFICATION

PRODUCT

NON-CONTACT MICROWAVE

- 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
- Linearisation
- Plastic, aluminium or stainless steel housing
- High temperature range
- IP 67 protection
- Explosion-proof models

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

Power supply: 24 V DC
Ambient temperature: -30°C ... +60°C
Process temperature: -30°C ... +180°C
Pressure: -1 bar – 25bar
Output: 4-20mA, HART
Process connection: 1 1/2", 2" or flanges or sanitary
Protection: IP67
Approvals: ATEX 
 IEC Ex, FCC, R&TTE




PiloTREK

GUIDED MICROWAVE

- 2 wire compact transmitter
- TDR principle
- Digital communication
- Accuracy: ± 5 or ± 20 mm
- 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

- Level, distance or volume measurement
- Liquids, powders, granules with $\epsilon_r > 1.4$
- 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: IP 65
Approvals: ATEX , IEC Ex II 1G Ex ia IIC T6, II 1G Ex ia IIB T6, II 1 D iaD A20/21 IP65 T100°C




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 or foam faced transducers
- Plug-in display module
- Secondary lightning protection
- HART, RS 485, Profibus
- 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
 24 V AC/DC
Ambient temperature: -30°C...+70°C
Process temperature: -30°C...+100°C
Pressure: 0.3 to 3 bar
Measuring range: 0.2 - 25 m for liquids
 0.6 - 60 m for solids
Output: 4-20 mA, HART, Profibus
Protection: IP 67
Approvals: ATEX 
 II 1 G EEx ia IIB T6
 II 1/2 D IP65 T130°C




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 IP 68 is needed

Power supply: 2-wire: 12-36 V DC
 4-wire: 24 V AC/DC
Ambient temperature: -30°C...+80°C
Process temperature: -30°C...+90°C
Pressure: 0.3 to 3 bar
Measuring range: 0.2 - 15 m for liquids
 0.5 - 60 m for solids
Output: 4-20 mA, HART
Protection: IP 68, IP 65
Approvals: ATEX 
 II 1G EEx ia IIB T6
 II 1D IP68 T130°C



EasyTREK

L E V E L T R A N S M I T T E R S

CAPACITIVE

- Two-wire compact transmitter
- High sensitivity
- Rod or cable probes up to 20 m
- Plastic or aluminium 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 $\epsilon_r > 1.5$ 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 1/2"

Protection: IP 67

Approvals: ATEX 

II 1G EEx ia IIB T6



NIVOCAP

HYDROSTATIC

- 2 or 3-wire submersible transmitter
- Stainless steel body
- Venting tube in cable
- Up to 200 m range
- Reverse polarity protection
- Optional lightning protection
- Accuracy: 0.25 %
- Incorporated Pt100 temperature sensor
- HART communication
- Explosion-proof models

- Borehole transmitter for the water industry
- Small diameter pipes
- Sewage 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: IP 68

Approvals: ATEX 

II 1 G Ex ia IIC T6



NIVOPRESS N

HYDROSTATIC

- 2-wire compact transmitter
- Stainless steel diaphragm
- Accuracy: 0.25%
- High overload capability
- Level and pressure management
- HART communication
- 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 1/2" or flanges or hygienic fittings

Protection: IP 65

Approvals: ATEX 

II 1 G EEx ia IIC T6...T4



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. 0.5 kg/m³ 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: IP 67

Approvals: ATEX , IEC Ex

II 1G Ex ia IIB T6...T5

II 2G Ex d IIB T6...T5

II 1/2G Ex d ia IIB T6...T5

OIML R-85



NIVOTRACK

BYPASS LEVEL INDICATOR

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

- 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:

-35...+250 °C

Medium density:

0.6...1.2 kg/dm³

Approval for strap on

level switches: ATEX 

II 1G



NIVOFLIP


L E V E L S W I T C H E S

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/dm³ density and max. 10⁴ mm²/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: IP 67 or IP 68
Approvals: ATEX 
II 1 G Ex ia IIC T4...T6
Germanischer Lloyd (GL)




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/dm³ 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 1/2"

Output: 1 or 2 SPDT relays, 2-wire AC or DC, transistor (PNP, NPN)
Protection: IP 67 or IP 68
Approvals: ATEX 
II 1/2 D IP6X T160°C




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/dm³ 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 1/2"

Output: Relay (SPDT) or electronic switch (SPST)
Protection: IP 67
Approvals: ATEX 
II 1/2 D tD A20/A21 IP67 T* °C
(depending on model versions)
IEC Ex t IIIC T* Da/Db IP67




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/dm³ 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 1/2", mounting plate
Output: Relay 250 V AC, 10A
Protection: IP 67
Approvals: ATEX 
II 1/2 D Ex tb IIIC T200°C IP67




NIVOROTA

RF - CAPACITANCE

- Intelligent electronic level switch
- Not sensitive to deposits
- Easy calibration
- Selectable sensitivity
- Fail-safe operation mode
- Rod or cable extended versions
- High temperature version
- Dust-Ex models

- For solids with $\epsilon_r \geq 1.5$ and liquids
- For high viscosity, sticky materials
- Pharmaceutical and Food industry
- Power generation processes

Power supply:
20-255 V AC/DC
Ambient temperature:
-30°C ... + 60°C
Medium temperature:
-30°C ... + 220°C
Pressure: max. 3 bar
Process connection: 1", 1 1/2"
Output: Relay (SPDT) or electronic switch (SPST)
Protection: IP67
Approvals: ATEX 



NIVOCAP CK

L E V E L S W I T C H E S

OPERATING PRINCIPLE

FEATURES

APPLICATION

SPECIFICATION

PRODUCT

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, 3 A
Process temperature:
0 °C...+50 °C
Pressure:
max. 1 bar
Protection:
IP 68



NIVOFLOAT

CONDUCTIVITY

- 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

- Conductive liquids with min. 1×10^{-5} S/cm conductivity
- Fail-safe indication and pump control
- Chemical and water industry

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:
3/8", 1 1/2"
Protection: IP 65, IP 20



NIVOCONT K

MAGNETIC COUPLING

- 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
- Explosion-proof models
- SIL approval

- 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

Switch rating:
250 V AC, 10 A
Ambient temperature:
-20°C...+80°C
Process temperature:
-40°C...+250°C
Pressure: max. 25 bar
Process connection:
flanges or 2" thread
Protection: IP 65, 68
Approvals: ATEX II 1/2 G EEx dme IIC T6...T2, IEC Ex dme IIC T6...T2, Germanischer Lloyd (GL), Det Norske Veritas (DNV), Bureau Veritas (BV), SIL1



NIVOMAG

MAGNETIC TRACKING

- 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
- Explosion-proof models

- Liquids with min. 0.5 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

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: IP 65, IP 68
Approvals: ATEX II 2 G EEx d IIC T3...T6, Bureau Veritas (BV)



NIVOPPOINT

A N A L Y T I C S

T E M P E

OPERATING PRINCIPLE

FEATURES

APPLICATION


SPECIFICATION

PRODUCT

pH/ORP TRANSMITTERS

- 2-wire compact and integrated transmitter
- Plug-in graphic display module
- Blind version with IP68 protection
- Temperature compensated
- Application oriented probes
- Wide selection of accessories
- HART communication
- Power relay output, programmable
- Explosion-proof models

- Water wastewater
- Water processing
- Water purification
- Chemical industries
- Pharmaceutical industries
- Food and beverage industries

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 - 20mA, relay, HART
Protection: IP67, IP68
Approval: ATEX 
 II 1G Ex ia IIB T6 Ga



AnaCONT LEP/LER

CONDUCTIVITY TRANSMITTERS

- 2-wire mini compact transmitter
- Wide range of measurement
- Plug-in display
- IP68 protection
- Wide selection of accessories
- HART communication

- Drinking water production
- Water processing
- Water purification
- Swimming pools
- Pharmaceutic and chemical industries
- Food and beverage industries

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 - 20mA, HART
Protection:
 IP65/IP68




AnaCONT LCK

DISSOLVED OXYGEN TRANSMITTER

- 2-wire compact and integrated transmitter
- Plug-in graphic display module
- Blind version with IP68 protection
- Temperature compensated
- HART communication
- Power relay output, programmable
- Wide selection of accessories
- Explosion-proof models

- Water, wastewater
- Aeration processes
- Apprising the quality of surface waters
- Pharmaceutic and chemical industries
- Food and beverage industries

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 - 20mA, relay, HART
Protection: IP67, IP68
Approval: ATEX 
 II 1G Ex ia IIB T6 Ga




AnaCONT LED

TEMPERATURE INDICATOR / TRANSMITTER

- 2-wire compact temperature display, transmitter
- Integral Pt 100 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

- Tanks, vessels, pipelines
- Liquid and gaseous mediums
- Where local indication is required
- Transmission to long distances (4...20mA, HART)

Measuring range: -50 °C...+600 °C
Power supply: 10 – 36 V DC
Ambient temperature: -40°C...+70°C
Pressure: max. 25 bar
Output: 4 - 20mA, HART
Protection: IP65
Approval: ATEX 
 II 2 G EEx d IIB T6...T1
 II 1/2 G EExd ia IIB T6...T1
 II 1 G EEx ia IIB T6...T1



THERMOCONT TT

R A T U R E

S E N S O R S

MULTIPOINT TEMPERATURE TRANSMITTER

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

- 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: max. 30m

Accuracy: ±5°C

Tensile force: 35 kN

Output: 4-20mA, HART

Process connection: 1 ½"

Protection: IP67

Approval: ATEX

II 1G Ex ia IIB T6...T4

II 1 D Ex iaD A20/A21 T85°C

II 1 D Ex ta/tb IIIC T85°C Da



THERMOPPOINT

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

- 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

Resolution:

0.1 mm

Output: 0 - 10 V, 4 - 20 mA,

NPN or PNP switch

Protection:

IP 67, IP 68



MICROSONAR

PRESSURE TRANSMITTER

- Compact size
- Stainless steel 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

Power supply:

12 - 36V DC

Ambient temperature:

-25°C...+85°C

Medium temperature:

-25°C...+125°C

Measuring range:

-1...600bar

Accuracy:

0.25% or 0.5%

Process connection:

¼", ½", 1", triclamp

Output:

4 - 20mA, 0-10 V

Protection:

IP65, IP67



NIPRESS

MULTICHANNEL PROCESS CONTROLLER

- Programmer, display and controller for transmitters with HART protocol
- Highly informative Dot-Matrix display back light
- 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:

RS 485

Storage medium: SD Card

(max 2 GB); Flash Memory

Protection: IP65

Approvals: ATEX, IEC Ex

II (1) G [Ex ia Ga] II B



MultiCONT

UNIVERSAL PROCESS CONTROLLER / INDICATOR

- Dual line LED display, 4 digits
- Universal input: Thermo-couple: K, J, T, E, L, U, N, R, S, B, M, A, C, RTD's: Pt 100, JPt 100, 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 - 20mA output

- 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 - 20mA, RS485,

power supply for transmitters,

SSR driver

Display:

dual 4 digits LED display

Protection: IP20/IP66



UNICONT PMM, PMG



*NIVELCO – official sponsor
of the Hungarian Paralympic Team*

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SYSTEM COMPONENTS

LOOP INDICATOR

- 4 - 20mA 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: IP 67

Approval: ATEX 

II 1 G EEx ia IIB T6

II 2 G EEx d IIB T6

II 1/2 G EEx d ia IIB T6

II 2 G Ex d IIB T6



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:

110V, 230V AC, 24V AC/DC

Ambient temperature:

-10°C...+55°C

Input:

4 - 20 mA

Switch rating:

250V AC, 8A, AC1

Protection: IP20

Process connection:

DIN rail mountable (module width: 36 mm)

Approval: ATEX 

II (1) G [EEx ia] IIB

II (1) G [EEx ia] IIC



UNICONT PKK

UNIVERSAL INTERFACE MODULE

- Universal expander module for:
 - PLC process control systems
 - automated systems operating on RS485
 - MultiCONT process controller
- 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 (4-20mA)

- 1 relay + 1 current output

Process connection:

DIN rail mounted

(module width: 36mm)

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
- Explosion-proof models

- 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: 1µA or 8µA

Response time:

5ms or 100ms

Process connection:

DIN rail mounted

(module width: 22.5mm)

Protection: IP20

Approval: ATEX 

II (1) G [Ex ia Ga] IIC

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IEC Ex



UNICONT PGK

SYSTEM COMPONENTS SOFTWARE

ULTRASONIC PUMP CONTROL SYSTEM

- Low cost automatic pump control system
- Ultrasonic level measurement
- 0.4-3m measurement range
- Programmable pump cycling
- Optional dry-run or overflow protection
- Maintenance-free
- Max. 1kW 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:

(Controll 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:

Controll unit: wall mountable
Ultrasonic transmitter: 1"

Protection:

Controll unit: IP65

Ultrasonic transmitter: IP68



UNICONT PSW

COMMUNICATION MODULE

- Communication interface (modem) between HART-capable transmitters and PC
- DIN rail mountable or KLEPS2 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 

II (1) G [Ex ia Ga] IIC



UNICOMM

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