

PRODUCT OVERVIEW

2021

QUALITY AND INNOVATION SINCE 1939

NIVELCO

OPERATING PRINCIPLE

NON-CONTACT MICROWAVE

FEATURES

- | COMPACT | INTEGRATED |
|--|---|
| <ul style="list-style-type: none">■ Plug-in graphic display module■ Plastic, aluminum or stainless steel housing■ Stainless steel parabolic, horn or plastic enclosed antenna■ High-temperature range | <ul style="list-style-type: none">■ Plastic housing■ Horn, planar or parabolic antenna■ Stainless steel or plastic encapsulated sensor■ Where IP68 is needed |

- 2-wire transmitters
- 25 GHz (K-band) measuring signal
 - Non-contact level metering
 - Accuracy up to ± 0.12 inch
- Measuring range up to 75 feet
 - 99-point linearisation
- Explosion-proof variants available

APPLICATION

- | | |
|--|--|
| <ul style="list-style-type: none">■ Level measurement of liquids, emulsions and other chemicals■ Agriculture■ Construction materials■ Chemical industry■ Pharmaceutical industry■ Food and beverage■ Power plants■ Oil industry■ Water / wastewater industry | <ul style="list-style-type: none">■ Level measurement of liquids, emulsions and other chemicals■ Food and beverage■ Chemical industry■ Oil industry■ Water / wastewater industry |
|--|--|

SPECIFICATION

- | | |
|--|---|
| <p>Power Supply: 20–36 VDC Ambient Temperature: $-4^{\circ}\text{F} \dots +140^{\circ}\text{F}$ Process Temperature: $-22^{\circ}\text{F} \dots +356^{\circ}\text{F}$ Process Pressure: $-14.5\text{--}362.6$ psig Output: 4...20 mA + HART® Process Connection: 1½", 2" or flanges or sanitary Ingress Protection: IP67 Certificates: ATEX, IEC Ex, FCC, FM & FMc, INMETRO</p> | <p>Power Supply: 20–36 VDC Ambient Temperature: $-4^{\circ}\text{F} \dots +140^{\circ}\text{F}$ Process Temperature: $-22^{\circ}\text{F} \dots +212^{\circ}\text{F}$ Process Pressure: $-14.5\text{--}43.5$ psig Output: 4...20 mA + HART® Process Connection: 1½", 2" or flanges or sanitary Ingress Protection: IP68 Certificates: ATEX, IEC Ex, FCC, INMETRO</p> |
|--|---|








LEVEL TRANSMITTERS

| GUIDED MICROWAVE | CAPACITIVE | HYDROSTATIC | HYDROSTATIC | MAGNETO- STRICTIVE |
|---|--|---|---|--|
| <ul style="list-style-type: none"> ▪ 2-wire compact transmitter ▪ ±0.4 inch accuracy ▪ High pressure ▪ High-temperature range ▪ Wide range of probes ▪ Extremely small deadband ▪ Rod, cable, or coaxial probe versions ▪ Plug-in graphic display module ▪ Explosion-proof variants available ▪ Plastic, aluminum or stainless steel housing ▪ Media with turbulent surface, dense dust, vapor or pressurized gas layers above the product surface ▪ For all tank shapes, for narrow vessels ▪ Heavy industrial applications | <ul style="list-style-type: none"> ▪ 2-wire compact transmitter ▪ High sensitivity ▪ Rod (7.8 inches to 9.8 ft) or cable (39 inches to 65 ft) probe ▪ Plastic, aluminum or stainless steel housing ▪ Partially or fully insulated probe ▪ Plug-in display module ▪ 32-point linearisation ▪ Explosion-proof variants available ▪ Chemicals with dense gas layers above the surface ▪ High pressure, high-temperature or vacuum ▪ Viscous or corrosive mediums | <ul style="list-style-type: none"> ▪ 2-wire compact transmitter ▪ Stainless steel diaphragm ▪ Accuracy: 0.25% ▪ High overload capability ▪ Level and pressure management ▪ Plug in display module ▪ High-temperature range ▪ Explosion-proof variants available ▪ Viscous or corrosive materials ▪ Chemicals with dense vapor or gas layers above the surface | <ul style="list-style-type: none"> ▪ 2- or 3-wire submersible transmitter ▪ Capacitive ceramic, piezoresistive stainless steel and piezoresistive ceramic sensor ▪ Stainless steel or fully plastic body ▪ Venting tube in cable ▪ Reverse polarity protection ▪ Optional lightning protection ▪ Linearity error: ±0.25% ▪ Integrated Pt100 temperature sensor ▪ Explosion-proof variants available ▪ Borehole transmitter for the water industry | <ul style="list-style-type: none"> ▪ 2-wire compact, mini compact or integrated transmitter ▪ 0.004 inch or 0.04 inch resolution ▪ Wetted parts: stainless steel or plastic ▪ Plug-in graphic display module ▪ 99-point linearisation ▪ Distance, level and volume measurement ▪ Explosion-proof variants available ▪ Interface measurement ▪ Chemicals, solvents, hydrocarbons ▪ Custody transfer measurement (OIML R 85) |
| <ul style="list-style-type: none"> ▪ Level, distance or volume measurement of liquids, powders, granules with $\epsilon_r > 1.4$ ▪ Agriculture ▪ Construction materials ▪ Chemical industry ▪ Food and beverage ▪ Power plants ▪ Oil industry ▪ Water / wastewater industry | <ul style="list-style-type: none"> ▪ Distance, level and volume measurement of liquids, powders, granules, with $\epsilon_r > 1.5$ relative dielectric constant ▪ Chemical industry ▪ Food and beverage ▪ Power plants ▪ Oil industry ▪ Water / wastewater industry | <ul style="list-style-type: none"> ▪ Level measurement of most foaming liquids and masses in tanks and vessels ▪ Chemical industry ▪ Food and beverage ▪ Power plants ▪ Oil industry ▪ Water / wastewater industry | <ul style="list-style-type: none"> ▪ Level metering of small diameter pipes, sewage water, saline solutions, sea water, potable water ▪ Chemical industry ▪ Water / wastewater industry | <ul style="list-style-type: none"> ▪ Level measurement of normal and flammable liquids, with min. 0.4 specific gravity ▪ Chemical industry ▪ Power plants ▪ Oil industry ▪ Water industry |
| <p>Power Supply: 18–35 VDC Ambient Temperature: –22°F...+140°F Process Temperature: –22°F...+392°F Process Pressure: –14.5–580 psig Measuring Range: 0–80 feet Output: 4...20 mA + HART® Ingress Protection: IP67 Certificates: ATEX, IEC Ex, INMETRO</p> | <p>Power Supply: 12–36 VDC Ambient Temperature: –13°F...+158°F Process Temperature: –22°F...+392°F Process Pressure: up to 580 psig Output: 4...20 mA, HART® Process Connection: 1", 1½" Ingress Protection: IP67 Certificate: ATEX</p> | <p>Power Supply: 10–36 VDC Ambient Temperature: –40°F...+158°F Process Temperature: –13°F...+257°F Process Pressure: up to 5800 psig Output: 4...20 mA, HART® Process Connection: 1", 1½", flanges, hygienic fittings Ingress Protection: IP65 Certificate: ATEX</p> | <p>Power Supply: 12–30 VDC Process Temperature: –22°F...+140°F Measuring Range: 0–656 feet Output: 4...20 mA + HART®, 0–10 V Ingress Protection: IP68 Certificate: ATEX</p> | <p>Power Supply: 12.5–36 VDC Ambient Temperature: –40°F...+158°F Process Temperature: –40°F...+194°F Process Pressure: up to 363 psig Measuring Range: 0–50 feet Output: 4...20 mA, HART® Process Connection: 1", 2" or flanges Ingress Protection: IP67 (IP68) Certificates: ATEX, FM & FMc, IEC Ex, EAC, OIML R 85</p> |
|  |  |  |  |  |
| MicroTREK | NIVOCAP | NIVOPRESS D | NIVOPRESS N | NIVOTRACK |



LEVEL TRANSMITTERS

| BYPASS LEVEL INDICATORS | ULTRASONIC INTEGRATED | | ULTRASONIC COMPACT | |
|--|--|---|--|---|
| | FOR LIQUIDS | FOR SOLIDS | FOR LIQUIDS | FOR SOLIDS |
| <ul style="list-style-type: none"> Operation without power supply Clearly visible display Stainless steel bypass chamber Error indication Optional Strap-on level transmitter Optional magnetostrictive level transmitter ±0.4 inch accuracy Stainless steel or titanium float High-temperature version Explosion-proof models | <ul style="list-style-type: none"> 2-wire transmitter Non-contact level metering Narrow 5° beam angle Excellent signal processing via QUEST+ software Temperature compensation Secondary lightning protection 32-point linearisation PP, PVDF, PTFE housing and transducers Explosion-proof variants available Level and volume measurement Open-channel flow metering Fail-safe indication For challenging applications such as vapor, fume, mixing blades, and light foam | <ul style="list-style-type: none"> 4-wire transmitter Non-contact level metering Narrow 5° beam angle Excellent signal processing Temperature compensated Secondary lightning protection 32-point linearisation PP and aluminum housing transducers with PVC foam Joystick aiming device Explosion-proof variants available Level and volume measurement Fail-safe indication For challenging applications such as long distance measurement and light dust during filling | <ul style="list-style-type: none"> 2- or 4-wire transmitter Non-contact level metering Narrow 5° beam angle Excellent signal processing Temperature compensated Secondary lightning protection 32-point linearisation PP, PVDF, PTFE housing and transducers Plug-in display module Plastic, aluminum or stainless steel housing Explosion-proof variants available Level and volume measurement and display Open channel flow measurement Fail-safe indication For challenging applications such as vapor, fume, mixing blades, and light foam | <ul style="list-style-type: none"> 4-wire transmitter Non-contact level metering Narrow 5° beam angle Excellent signal processing Temperature compensated Secondary lightning protection 32-point linearisation PP and aluminum housing transducers with PVC foam Joystick aiming device Plug-in display module Powder-coated aluminum housing Explosion-proof variants available Level and volume measurement and display Fail-safe indication For challenging applications such as long distance measurement and light dust during filling |
| <ul style="list-style-type: none"> Level measurement of pressurized vessels, boilers and tanks Chemical industry Power plants Oil industry <ul style="list-style-type: none"> Water industry | <ul style="list-style-type: none"> Level measurement of liquids, wastewater, aggressive chemicals and slurries Agriculture Construction materials Chemical industry Food and beverage Oil industry Paper mill Water / wastewater industry | <ul style="list-style-type: none"> Level measurement of free flowing solids Chemical industry Food and beverage Mining industry | <ul style="list-style-type: none"> Level measurement of liquids and slurries Agriculture Construction materials Chemical industry Food and beverage Oil industry Paper mill Water / wastewater industry | <ul style="list-style-type: none"> Level measurement of free flowing solids Chemical industry Food and beverage Mining industry |
| <p>Flange distance (CL to CL): 1.65–18 feet</p> <p>Process Connection: DIN, ANSI flanges</p> <p>Process Pressure: up to 1450 psig</p> <p>Process Temperature: -76°F...+482°F</p> <p>Specific gravity: 0.55–1.25</p> <p>Certificates: PED, ATEX</p> | <p>Power Supply: 11–36 VDC</p> <p>Ambient Temperature: -22°F...+176°F</p> <p>Process Temperature: -22°F...+194°F</p> <p>Pressure (absolute): 7.5–43.5 psig</p> <p>Measuring Range: 0.65–82 feet</p> <p>Process Connection: 1" BSP, 1½" and 2" NPT</p> <p>Output: 4...20 mA, HART®, relay</p> <p>Ingress Protection: IP68</p> <p>Certificates: ATEX, INMETRO</p> | <p>Power Supply: 11.4–40 VDC, 11.4–28 VAC</p> <p>Ambient Temperature: -22°F...+140°F</p> <p>Process Temperature: -22°F...+140°F</p> <p>Measuring Range: 2–200 feet</p> <p>Process Connection: 1" BSP and joystick aiming device</p> <p>Output: 4...20 mA, HART®, relay</p> <p>Ingress Protection: IP65</p> <p>Certificate: ATEX</p> | <p>Power Supply: 2-wire: 12–36 VDC, 4-wire: 85–255 VAC, 20–28 VAC/DC</p> <p>Ambient Temperature: -22°F...+158°F</p> <p>Process Temperature: -22°F...+212°F</p> <p>Pressure (absolute): 7.5–43.5 psig</p> <p>Measuring Range: 0.65–82 feet</p> <p>Process Connection: 1½", 2" BSP / NPT, flange</p> <p>Output: 4...20 mA, HART®, relay</p> <p>Ingress Protection: IP67</p> <p>Certificate: ATEX, INMETRO</p> | <p>Power Supply: 85–255 VAC; 11.4–40 VDC; 11.4–28 VAC</p> <p>Ambient Temperature: -22°F...+140°F</p> <p>Process Temperature: -22°F...+167°F</p> <p>Measuring Range: 2–200 feet</p> <p>Process Connection: joystick aiming device</p> <p>Output: 4...20 mA, HART®, relay</p> <p>Ingress Protection: IP65</p> <p>Certificate: ATEX</p> |
|  |  |  |  |  |
| NIVOFLIP | EasyTREK | | EchoTREK | |

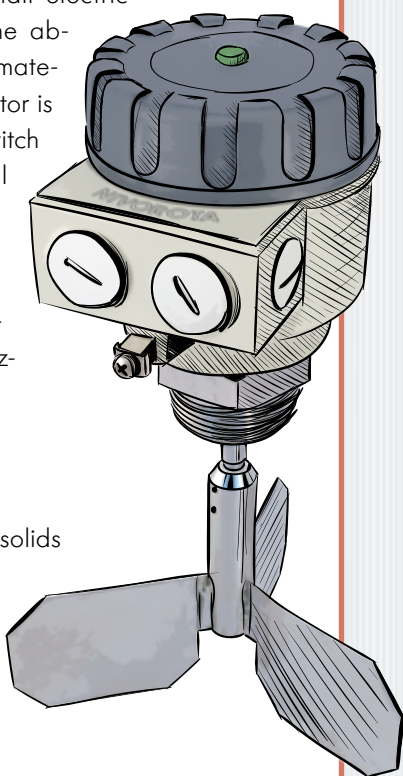
NIVOROTA

ROTARY PADDLE LEVEL SWITCH

The redesigned **NIVOROTA** rotary paddle level switch returns with an extended rotary paddle range and an even more reliable internal design.

NIVOROTA detects the level of lumpy materials, powders, grains, and granules. Mounted onto tanks, silos, and hoppers, it monitors and controls the level, filling, and dumping of the materials such as pebbles, ash, sand, coal, feed, beet slices, etc.

The paddle is driven by a small electric motor and rotates freely in the absence of materials. When the material reaches the paddle, the motor is switched off, and the output switch is triggered. When the material level drops, the paddle is free to spin again, the motor is reactivated, and the switch returns to its original state. Dust-Ex versions are available for use in hazardous environments.



FEATURES

- Level switching of free flowing solids
- Cable or rod extended versions up to 10 feet
- Automatic motor shutdown
- High-temperature version
- IP67
- Dust-Ex certified version
- Rotary force independent of the supply voltage
- Low supply voltage is indicated by a blinking LED

APPLICATIONS

- **Food industry:**
sunflower seeds, sunflower hulls, coffee and, cocoa powder, flour, sugar, etc.
- **Chemical industry:**
plastic powders, granules, pellets
- **Construction materials:**
cement, sand, calcium powder, gypsum
- **Energy industry:**
active soot, coal powder, fly ash

LEVEL SWITCHES

OPERATING PRINCIPLE

FLOAT

CONDUCTIVE

MAGNETIC COUPLING

MAGNETIC TRACKING

FEATURES

- Operation without power supply
- Low cost polypropylene level switch
- Air-tight design dual-chamber
- Mercury free micro switch
- Adjustable switch differential
- For low specific gravity liquids

- Affordable choice
- Limit switch or differential switch versions
- Adjustable sensitivity
- Adjustable 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 10 feet

- 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 variants available
- SIL1 approval

- Operation without power supply
- Reed switch output
- Wetted parts stainless steel or plastic
- Up to 5 switching points
- Vertical adjustability of all switch points
- Various process connections
- Flame-proof variants available

APPLICATION

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

- Conductive liquids with minimum 1×10^{-5} S/cm conductivity
- Fail-safe indication and pump control
- Chemical industry
- Water / wastewater industry

- Liquids with minimum 0.7 specific gravity
- Fail-safe and control level switches in closed tanks
- Ballast tanks on ships
- Chemical industry
- Food and beverage
- Power plants
- Oil industry
- Water industry

- Liquids with minimum 0.4 kg specific gravity
- Multi-point level switch in closed tanks
- Foaming liquids, chemicals with dense vapor or gas layer above the surface
- Chemical, oil industry
- Food and beverage
- Power plants
- Water industry

SPECIFICATION

Switch Rating:
250 VAC, 10(3)A
Process Temperature:
+32°F...+122°F
Process Pressure:
up to 14.5 psig
Ingress Protection:
IP68

Switch Rating:
250 VAC, 16A or 8A
Power Supply:
24-240 VAC/DC
Ambient Temperature:
-4°F...+122°F
Process Temperature:
up to +392°F
Process Pressure:
max. 232 psig
Process Connection:
3/8", 1 1/2"
Ingress Protection:
IP65 / IP67, IP20

Switch Rating:
250 VAC, 10A NO/NC
Ambient Temperature:
-4°F...+176°F
Process Temperature:
-40°F...+482°F
Process Pressure:
up to 363 psig
Process Connection:
flanges or 2" thread
Ingress Protection:
IP65, IP68
Certificates:
ATEX, IEC Ex,
INMETRO, EAC,
DNV GL (Marine),
BV (Marine), SIL1

Switch Rating:
250 VAC, 3A
Ambient Temperature:
-40°F...+203°F
Process Temperature:
-40°F...+302°F
Process Pressure:
max. 363 psig
Process Connection:
1" or 2" or flanges
Ingress Protection:
IP67, IP68
Certificates:
ATEX, BV (Marine)



NIVOFLOAT NL / NW



NIVOCONT K



NIVOMAG



NIVOPPOINT

LEVEL SWITCHES

VIBRATING FORK

FOR LIQUIDS

FOR SOLIDS

VIBRATING ROD

ROTARY PADDLE

RF – CAPACITANCE

- No moving parts
- Self-cleaning in most mediums
- Stainless steel and plastic-coated probes
- Rod extension up to 10 feet
- Various output configurations
- High or low fail-safe mode
- Plastic, aluminum or stainless steel housing
- Explosion-proof variants available
- For corrosive, thick, turbulent, flowing liquids
- Medium pressure: up to 580 psig, RU□ type: up to 1450 psig

- No moving parts
- Self-cleaning for most mediums
- Stainless steel probes
- Rod extension up to 10 feet
- Various output configurations
- Selectable density
- High or low fail-safe mode
- Plastic, aluminum or stainless steel housing
- Dust-Ex variants available

- No moving parts
- Self-cleaning for most mediums
- Stainless steel vibrating section
- Rod (1–10 feet) or flexible cable extension (3.3–65 feet)
- Plastic or aluminum housing
- Selectable density
- High or low fail-safe mode
- Selectable switching delay
- Dust-Ex variants available
- For grain, flour, plastic granules, cement, fly ash, etc.

- Plastic or aluminum housing
- Long service time
- Motor shut-off feature
- Flexible coupling
- Rod or flexible cable extension (1–10 feet)
- Sealed bearings
- High-temperature version
- Dust-Ex variants available
- High or low fail-safe
- Feed, coal, sand, rocks, limestone, metals, rubber
- Rotary force independent of the supply voltage
- Low supply voltage is indicated by a blinking LED

- Intelligent electronic level switch
- Build-up immunity
- Easy calibration
- Selectable sensitivity
- Fail-safe operation mode
- Rod (2.3–10 feet) or flexible cable extension (3.3–33 feet)
- High-temperature version
- Dust-Ex variants available
- For high viscosity, sticky materials
- For special applications such as blockage detection in hopper and hot ash

- Most liquids with minimum 0.7 specific gravity and maximum 0.1 ft²/s viscosity
- Chemical industry
- Food and beverage
- Power plants
- Oil industry
- Water industry

- Granular material particulate and powder with minimum 0.01 specific gravity
- Chemical industry
- Food and beverage
- Power plants
- Paper mill
- Plastic industry

- Granular material and powder with min. 0.05 specific gravity
- Agriculture
- Construction materials
- Chemical industry
- Food and beverage
- Mining industry
- Power plants
- Paper mill
- Recycling
- Plastic industry

- Granular material and powder with minimum 0.1 specific gravity
- Agriculture
- Construction materials
- Chemical industry
- Food and beverage
- Mining industry
- Paper mill
- Recycling
- Plastic industry

- For solids with $\epsilon_r \geq 1.5$ and liquids
- Agriculture
- Construction materials
- Chemical industry
- Pharmaceutical industry
- Food and beverage
- Mining industry
- Power plants
- Paper mill
- Plastic industry
- Plugged chute detection and hot fly ash

Power Supply:
20–255 VAC,
20–60 VDC
Ambient Temperature:
–40°F...+158°F
Process Temperature:
–40°F...+266°F
Process Pressure:
up to 580 psig (1450 psig)
Process Connection:
1", 1½", 2" or flanges or
hygienic fittings
Output:
1 or 2 relays (SPDT), 2-wire AC
or DC, transistor (PNP, NPN)
Ingress Protection:
IP65, IP67, IP68
Certificates:
ATEX, IEC Ex, FM & FMc,
DNV GL (Marine)

Power Supply:
20–255 VAC,
20–60 VDC
Ambient Temperature:
–40°F...+158°F
Process Temperature:
–40°F...+266°F
Process Pressure:
up to 580 psig
Process Connection:
1", 1½", 2" or flanges
Output:
1 or 2 relays (SPDT),
2-wire AC or DC,
transistor (PNP, NPN)
Ingress Protection:
IP65, IP67, IP68
Certificate:
ATEX

Power Supply:
20–255 VAC/DC
Ambient Temperature:
–22°F...+140°F
Process Temperature:
–22°F...+320°F
Process Pressure:
up to 363 psig
Process Connection:
1½"
Output:
relay (SPDT) or
electronic switch (SPST)
Ingress Protection:
IP67
Certificates:
ATEX, IEC Ex

Power Supply:
24 VAC/DC,
120 VAC, 230 VAC
Ambient Temperature:
–22°F...+140°F
Process Temperature:
–4°F...+392°F
Process Pressure:
up to 44 psig
Process Connection:
BSPT 1", 1½", mounting plate
Output:
relay (SPDT) 250 VAC,
5A, AC1
Ingress Protection:
IP67
Certificate:
ATEX

Power Supply:
20–250 VAC/DC
Ambient Temperature:
–22°F...+149°F
Medium temperature:
–40°F...+455°F
Process Pressure:
up to 363 psig
Process Connection:
¾", 1", 1½"
Output:
relay (SPDT) or
electronic switch (SPST)
Ingress Protection:
IP67
Certificates:
ATEX, IEC Ex



NIVOSWITCH

NIVOCONT R

NIVOROTA

NIVOCAP CK

ANALYTICAL TRANSMITTERS

OPERATING PRINCIPLE

pH / ORP

DISSOLVED OXYGEN

CONDUCTIVITY

TEMPERATURE SENSOR

FEATURES

- 2-wire compact and integrated transmitter
- Plug-in graphic display module
- Separated version up to 33 feet
- Temperature compensated
- Application oriented probes
- Wide selection of accessories
- Power relay output, programmable
- Explosion-proof variants available

- 2-wire compact transmitter
- Plug-in graphic display module
- Separated version up to 33 feet
- Temperature compensated
- Power relay output, programmable
- Wide selection of accessories
- Explosion-proof variants available

- 2-wire mini compact transmitter
- Wide range of measurement
- Plug-in display
- Wide selection of accessories

- Single or dual Pt100 sensor versions
- 2- or 4-wire types
- Double sensor protection tube
- Fast response sensor version
- Stainless steel protection tube
- Max. 10 feet probe length
- Vibration-resistant version
- Explosion-proof variants available
- Can be mounted to special technological places, tanks, tubes, furnaces or boilers
- Temp. metering in bearings
- Special versions for unique applications

APPLICATION

- Continuous pH or redox potential (ORP) measurement of highly alkaline mediums, suspensions, contaminated fluids, emulsions.
- Chemical industry
- Pharmaceutical industry
- Food and beverage
- Power plants
- Water / wastewater industry

- Continuous dissolved oxygen measurement of surface waters, aeration processes, swimming pool equipments
- Chemical industry
- Pharmaceutical industry
- Food and beverage
- Water / wastewater industry

- Continuous conductivity measurement of swimming pool technology and drinking water equipment
- Water purification
- Chemical industry
- Pharmaceutical industry
- Food and beverage
- Water / wastewater industry

- Temperature measurement of liquids, gases, vapors
- Construction materials
- Chemical industry
- Food and beverage
- Oil industry
- Metallurgy
- Recycling

SPECIFICATION

Power Supply: 12–36 VDC
 Ambient Temperature: –22°F...+158°F
 Medium Temperature: +5°F...+212°F
 Process Pressure: max. 232 psig
 Measuring Range: pH: 0–14 pH
 ORP: ±1000 mV
 Output: 4...20 mA, relay, HART®
 Ingress Protection: IP67, IP68
 Certificate: ATEX



AnaCONT LEP / LER

Power Supply: 12–36 VDC
 Ambient Temperature: –22°F...+158°F
 Medium Temperature: +32°F...+122°F
 Process Pressure: max. 14.5 psig
 Measuring Ranges: 0–10 ppm
 0–20 ppm
 Output: 4...20 mA, relay, HART®
 Ingress Protection: IP67, IP68
 Certificate: ATEX



AnaCONT LED

Power Supply: 12–36 VDC
 Ambient Temperature: +32°F...+158°F
 Medium temperature: +14°F...+158°F
 Process Pressure: max. 232 psig
 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®
 Ingress Protection: probe: IP68, electronic: IP65



AnaCONT LCK

Measuring Ranges: –58°F...+1112°F
 Ambient Temperature: –4°F...+176°F
 Sensor Type: "A" or "B" class Pt100
 Pressure: max. 362.6 psig
 Process Connection: M20x1.5; 1/2"; flange
 Ingress Protection: IP67
 Certificate: ATEX



THERMOCONT TS / TP

TEMPERATURE MEASUREMENT

INDUSTRIAL SENSORS

| STRENGTHENED PROBE TEMPERATURE SENSOR | TEMPERATURE INDICATORS /TRANSMITTERS | MULTI-POINT TEMPERATURE TRANSMITTERS | | ULTRASONIC PROXIMITY SENSORS |
|---|--|--|---|--|
| | | FOR LIQUIDS | FOR SOLIDS | |
| <ul style="list-style-type: none"> Robust design for heavy chemical industry Stainless steel, drilled, tapered thermowell case Max. 2.62 feet insertion length Sensor can be replaced without removing the instrument from the process Vibration-resistant version 2- or 4-wire types Welded flange Gas thermometer version Explosion-proof variants available | <ul style="list-style-type: none"> 2-wire compact temperature display, transmitter Integral Pt100 probe Fully programmable Plug-in display module Probe length up to 10 feet Aluminum or plastic housing Heavy duty field mountable housing Explosion-proof variants available Transmission to long distances Versions for tanks, vessels, pipelines | <ul style="list-style-type: none"> 2-wire multi-point temperature transmitter Digitally addressed sensors Maximum 15 sensors Average, max, min temperature measurement Plug-in graphic display Rigid or flexible probes System capability Replaceable sensors Intrinsically safe variants available | <ul style="list-style-type: none"> 2-wire multi-point temperature transmitter Digitally addressed sensors Maximum 15 sensors Average, max, min temperature measurement Plug-in graphic display Flexible plastic-coated probe version Rigid or flexible probes System capability Replaceable sensors Intrinsically safe and Dust-Ex variants available | <ul style="list-style-type: none"> 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 |
| <ul style="list-style-type: none"> Temperature measurement of liquids, gases, vapors Special versions for unique applications For applications exposed to mechanical damage Chemical industry Oil industry | <ul style="list-style-type: none"> Temperature measurement and local indication of normal and hazardous liquid and gaseous mediums. Food and beverage Water / wastewater industry Oil industry | <ul style="list-style-type: none"> Continuous multi-point temperature measurement, indication, transmission and trend monitoring of normal and hazardous liquids Chemical industry Food and beverage Oil industry | <ul style="list-style-type: none"> Continuous multi-point temperature measurement, indication, transmission and trend monitoring of powdered, granular solids in storage silos, grain mills, animal feed. Agriculture Chemical industry Food and beverage | <ul style="list-style-type: none"> Position, distance detection used in packaging equipment Monitoring of: filling equipment, small transport vehicles, trolleys, fork-lifts, material or object detection on conveyor belts |

Measuring Ranges:
-58°F...+1112°F
Ambient Temperature:
-22°F...+176°F
Sensor Type:
"A" or "B" class
Pt100, or J, K thermocouple
Pressure:
max. 1160 psig
Process Connection:
1" or flange
Ingress Protection:
IP65, IP67
Certificate:
ATEX



Measuring Range:
-58°F...+1112°F
Power Supply:
10-36 VDC
Ambient Temperature:
-40°F...+158°F
Process Pressure:
max. 362 psig
Output:
4...20 mA, HART®
Process Connection:
M20x1.5; ½"; flange
Ingress Protection:
IP65
Certificate:
ATEX



Power Supply:
12-36 VDC
Ambient Temperature:
-22°F...+149°F
Measuring Range:
-22°F...+257°F
Number of Sensors:
max. 15
Probe Length:
rigid probe: 3.3-13 feet
flexible probe: 3.3-164 feet
Output:
4...20 mA + HART®
Process Connection:
1"; 1½" BSP / NPT; M20x1.5
Ingress Protection:
IP67
Certificate:
ATEX



Power Supply:
12-36 VDC
Ambient Temperature:
-22°F...+149°F
Measuring Range:
-22°F...+185°F
Number of Sensors:
max. 15
Probe Tensile Force:
35 kN
Probe Length:
3.3-164 feet
Output:
4...20 mA + HART®
Process Connection:
1½" BSP / NPT
Ingress Protection:
IP67
Certificate:
ATEX



Power Supply:
10.8-30 V
Ambient Temperature:
-4°F...+158°F
Ranges:
0.65-3.28 feet
/ 1.3-19.7 feet
Output:
0-10 V, 4...20 mA,
NPN or PNP switch
Ingress Protection:
IP67, IP68



THERMOCONT TN / TX

THERMOCONT TT

THERMOPOINT

MICROSONAR

PRESSURE SENSORS

OPERATING PRINCIPLE

PRESSURE SWITCHES

PRESSURE TRANSMITTERS

DIFFERENTIAL PRESSURE TRANSMITTERS

MULTICHANNEL PROCESS CONTROLLER

FEATURES

- Relative or absolute measuring mode
- Rotatable and configurable 4-digit display module
- Configurable via PC or programming device
- Stainless steel housing versions
- Ex ia versions*
- Integrated cable version

- Relative or absolute measuring mode
- For high pressure (up to 31 910 psig)
- For vacuum, overpressure and absolute pressure measurement
- Measurement range turndown
- Two chamber aluminum die cast or stainless steel housing
- Ex ia or Ex d versions*
- SIL2 version*

- Relative measurement mode
- Measuring range turndown
- Up to 2 contacts
- Aluminum die cast housing
- Static overpressure 5800 psig
- High accuracy
- Mechanical robust versions
- Hastelloy® sensor version
- Ex ia versions*

- Programmer, indicator and controller for single transmitters and for transmitter groups
- Large, easy to read backlit LCD or OLED display
- Tank visualisation
- Simple 6-key programming
- Datalogger memory: built-in 4 MB Flash memory SD card slot: max. 64 GB
- Transmitter diagnostic capabilities
- Ex flameproof input models

APPLICATION

- Gases, steam, liquids, viscous, pasty or highly contaminated media
- Pneumatic, hydraulic and mechanical engineering applications
- Plant and machine engineering, HVAC, environmental engineering
- For rough and difficult installing conditions
- Hygienical versions

- Water, waste water, fuel and oil, aggressive media, gases
- Plant and machine engineering, hydraulics, HVAC
- Environmental engineering, medical technology, laboratory techniques
- Energy industry, food and beverage industry
- For potable water

- Measurement of pressure difference of gases, compressed air and liquids in closed, pressurized tanks
- Plant and machine engineering, HVAC
- Chemical industry, energy industry, food and beverage industry
- Compact design versions for integration in applications with limited space

- Remote programming, displaying of transmitters
- Agriculture
- Construction materials
- Chemical industry
- Food and beverage
- Power plants
- Oil industry
- Plastic industry
- Water, waste water Industry

SPECIFICATION

Sensor: **silicon, ceramic, stainless steel**
 Nominal Pressure Gauge: **-1-8700 psig**
 Accuracy: **0.25%; 0.5% or 1%**
 Ambient Temperature: **-40°F...+185°F**
 Process Temperature: **-40°F...+257°F**
 Output: **1, 2 or 4 PNP contacts**
 Process Connection: **1/8", 1/4", 1/2", 3/4", 1", 1 1/2", 2" or flanges or sanitary**
 Ingress Protection: **IP54, IP65, IP67**



NIPRESS DK

Sensor: **ceramic, stainless steel**
 Nominal Pressure Gauge: **0-31 910 psig**
 Accuracy: **0.1%; 0.2%; 0.25%; 0.5%**
 Ambient Temperature: **-40°F...+185°F**
 Process Temperature: **-40°F...+572°F**
 Output: **4...20 mA, 0 - 10 V, HART®**
 Process Connection: **1/4", 1/2", 3/4", 1", 1 1/2" or flanges 2", 3" RF; M20x1.5 internal thread**
 Ingress Protection: **IP65, IP67, IP68**



NIPRESS D

Sensor: **silicon, stainless steel**
 Nominal Pressure Gauge: **0-1015 psig**
 Accuracy: **0.075%, 0.1%, 0.5%, 1%**
 Ambient Temperature: **-40°F...+185°F**
 Process Temperature: **-40°F...+257°F**
 Output: **4...20 mA, 0-10 V, HART®**
 Process Connection: **1/4", 1/2" BSP; 1/4", 1/2" NPT; M20x1.5**
Ø6.6x11 (for flex. tubes Ø6); Ø4.45x10 (for flex. tubes Ø4)
 Ingress Protection: **IP54, IP65, IP67**



NIPRESS DD

Power Supply: **11.4 - 40 VDC; 11.4 - 28 VAC; 85 - 255 VAC**
 Ambient Temperature: **-4°F...+122°F**
 Input from Transmitters: **Up to 15 HART® devices**
 Outputs, Internal: **max. 2x 4...20 mA max. 5x relays (SPDT)**
 Outputs, External: **max. 16x 4...20 mA via RS485 max. 64x relays (SPDT)**
 Communication with Host: **RS485**
 Storage Medium: **SD card (max. 64 GB) Flash Memory » USB**
 Ingress Protection: **IP65**
 Certificates: **ATEX, IEC Ex, INMETRO**



MultiCONT

If Ex version is required, please request a custom quotation based on the data in the price list. Orders based on the quotation will be considered official.

SIGNAL PROCESSING UNITS

SYSTEM COMPONENTS

UNIVERSAL CONTROLLERS / INDICATORS

ULTRASONIC PUMP CONTROL SYSTEM

UNIVERSAL INTERFACE MODULES

CURRENT CONTROLLED SWITCH MODULES

LOOP INDICATORS

- Dual LED display, 4 digits
- Universal input: Pt100, Ni100, J, K, S type sensors or 4...20 mA current, 0 – 10 V voltage output
- ON-OFF, PD or PID control
- Auto tuning
- 32 point linearization
- Transmitter power supply
- Up to 3 power relays
- Displaying of process values
- Heating / cooling control
- Alarm
- Plastic industry

- Low cost automatic pump control system
- Ultrasonic level measurement
- 1.3 – 10 feet measurement range
- Programmable pump cycling
- Optional dry-run or overflow protection
- Maintenance-free
- Max. 1 kW switching rate
- Motor or cable protection
- IP68 sensor
- Incorporated circuit breaker

- 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

- 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 variants available

- Loop operated
- Operation without external power supply in 2-wire type
- Field display for transmitters
- Scalable display
- 0.8 inch digit height
- 4...20 mA to HART® converter version
- Heavy duty field mountable housing
- Stainless steel housing
- Flameproof variants available

- Displaying of process values
- Heating / cooling control
- Alarm
- Agriculture
- Construction materials
- Chemical industry
- Food and beverage
- Oil industry
- Water / wastewater industry

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

- 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 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

- 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: 100–240 VAC, 20–48 VAC
22–65 VDC
Ambient Temperature: +32°F...+131°F
Input: universal
Output: relay, 4...20 mA, RS485, power supply for transmitters, SSR driver
Display: dual 4-digits LED display
Ingress Protection: IP20 / IP66

Power Supply: 230 VAC
Ambient Temperature: –13°F...+113°F
(Control unit)
Process Temperature: –13°F...+140°F
(Ultrasonic transmitter)
Output: 1 relay NC contact, 250 VAC, 8A, AC1
Process Connection: Control unit: wall mountable
Ultrasonic transmitter: 1" Ingress Protection: Control unit: IP65
Ultrasonic transmitter: IP68

Power Supply: 24 VDC
Ambient Temperature: +14°F...+122°F
Input: RS485 Interface
Output: – 2 relay 250 VAC, 8A, AC1
– 2 current outputs (4...20 mA)
– 1 relay + 1 current output
Process Connection: DIN rail mounted (module width: 1½")
Ingress Protection: IP20

Power Supply: 110 V, 230 VAC, 24 VAC/DC
Ambient Temperature: –13°F...+130°F
Input: 4...20 mA
Switch Rating: 250 VAC, 8A, AC1
Ingress Protection: IP20
Process Connection: DIN rail mounted (module width: 1½")
Certificate: ATEX

Power Supply: 10–36 VDC
Ambient Temperature: –40°F...+158°F
Input: 4...20 mA
Output: 4...20 mA, 4...20 mA + HART®
Display: 6 digits LCD
Ingress Protection: IP67
Certificates: ATEX, INMETRO



UNICONT PM

UNICONT PSW

UNICONT PJK

UNICONT PKK

UNICONT PDF / PLK

SYSTEM COMPONENTS

OPERATING PRINCIPLE

INTRINSICALLY SAFE ISOLATOR MODULES

POWER SUPPLY MODULES

TIME RELAY MODULES

COMMUNICATION MODULES

FEATURES

- Isolated power supply for intrinsically safe transmitters
- DIN rail mountable
- Compatible with all devices using standard HART® communication

- DIN rail mountable
- Stabilised 12 or 24 VDC output
- Overvoltage and short circuit protection

- 2- and 10-function types
- Wide time range
- Small size
- Universal power supply voltage
- DIN rail mountable
- Relay output

- 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 variants available
- 24 V current loop power supply (SAT-504)
- Switchable HART® resistor
- Bluetooth® compatibility (SAT-504)

APPLICATION

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

- Power supply for transmitters and sensors
- For inductive, capacitive proximity switches
- For infrared sensors
- Ultrasonic
- Proximity sensors

- Process controlling of repeated tasks
- Timed cycling of pumps or compressors
- Timing of technologic equipments
- Sequential control

- Transferring measurement data to PC
- Connecting field transmitter to the PC via USB, RS485 or Bluetooth®

SPECIFICATION

Power Supply: 20–35 VDC
 Output Voltage: 24 VDC
 Ambient Temperature: –4°F...+140°F
 Input / Output: 4...20 mA + HART®
 Accuracy: 1 µA / 8 µA
 Response time: 5 ms / 100 ms
 Process Connection: DIN rail mounted (module width: 1")
 Ingress Protection: IP20
 Certificates: ATEX, IEC Ex



UNICONT PGK

Power Supply: 100–250 VAC / 50–60 Hz
 Consumption: max. 70 V A / 37 W
 Output voltage: 12.2 VDC ±2%; 2500 mA, 24.2 VDC ±2%; 1250 mA
 Ambient Temperature: –4°F...+104°F
 Electrical connection: Terminal, wire cross section: max. AWG14
 Process Connection: DIN rail mountable (module width: 2")
 Ingress Protection: IP20



NIPOWER

Power Supply: 12–240 VAC/DC
 Time ranges: 0.1 s–100 days
 Output: relay, 250 V, 16A, AC1
 Process Connection: DIN rail mountable (module width: 0.7")
 Ingress Protection: IP20



NITIME

Power Supply: supplied from USB / 24 VDC / Powerbank
 Input: HART®
 Output: USB / RS485 / Bluetooth®
 Ingress Protection: IP20
 Certificate: ATEX



UNICOMM

SOFTWARES

| PROCESS VISUALISATION | HART® CONFIGURATION SOFTWARE |
|---|--|
| <ul style="list-style-type: none"> ▪ 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 | <ul style="list-style-type: none"> ▪ 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 |
| <ul style="list-style-type: none"> ▪ Custom-tailored software for industrial process visualization ▪ Online monitoring of measured values ▪ Tank-farm visualization ▪ Alarm systems ▪ Inventory management | <ul style="list-style-type: none"> ▪ For easy setting-up and configuration ▪ Remote programming ▪ Displaying measurement data ▪ Error detection ▪ Limited trend monitoring |

Requirements:

Operating system:
MS Windows 10, 8, 7,
Vista, XP, 2000
Input port:
RS232, RS485 / USB
Free disk space required:
5 GB

Operation system:
MS Windows 10, 8, 7,
Vista, XP, 2000
Free disk space required:
100 MB
Memory:
512 MB RAM
HART® Modem:
UNICOMM SAT-304,
SAK-305, SAT-504



NIVISION



EView2

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LEVEL TRANSMITTERS

LEVEL SWITCHES

ANALYTICAL TRANSMITTERS

TEMPERATURE MEASUREMENT

INDUSTRIAL SENSORS

PRESSURE SENSORS

SIGNAL PROCESSING UNITS

SYSTEM COMPONENTS



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