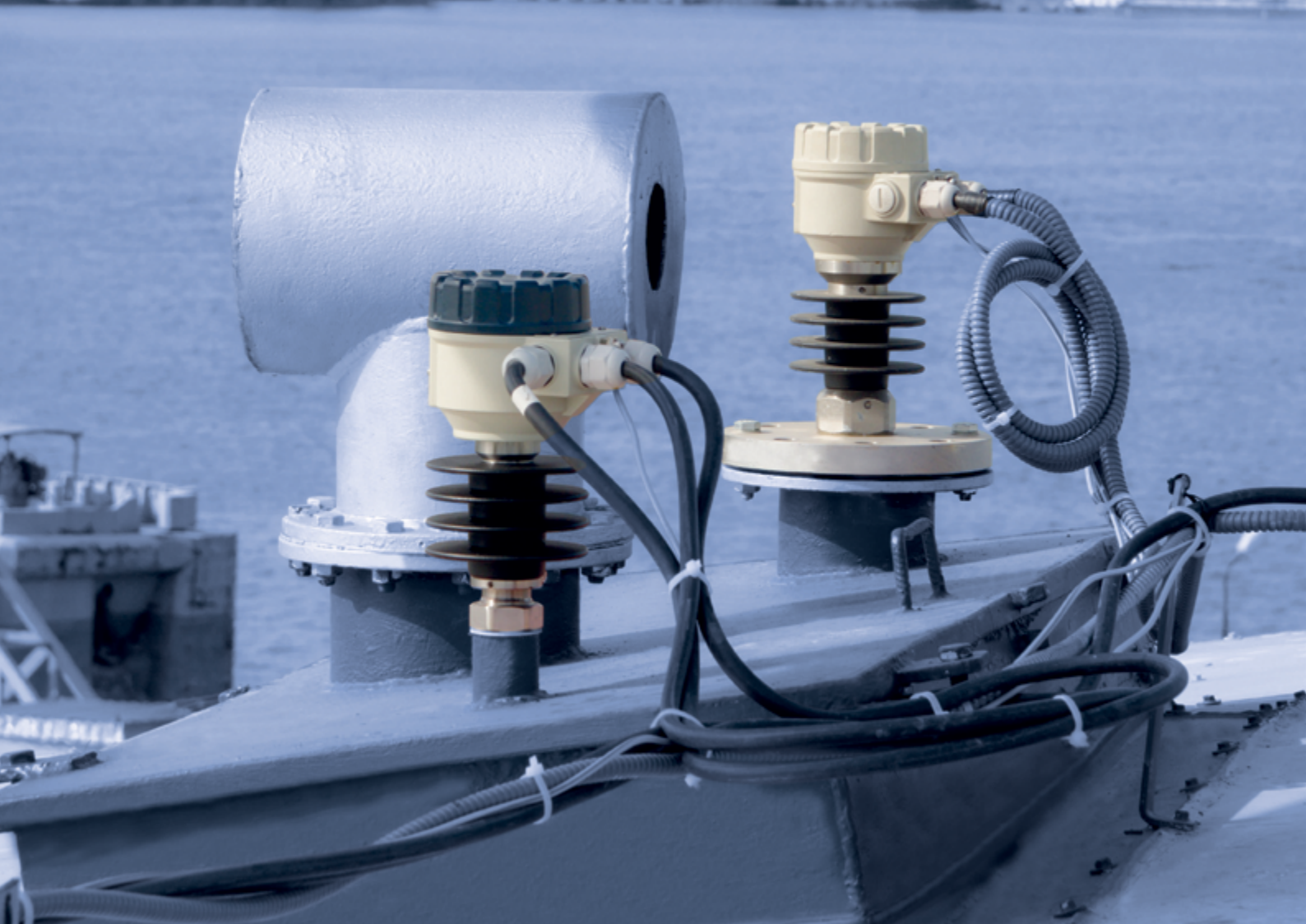




**5 YEARS  
WARRANTY\***



**NEW**  
PRODUCTS INSIDE

# PRODUCT OVERVIEW



# We are

# NIVELCO

In the more than four decades since its founding, NIVELCO has become a globally respected and leading player in the market, and has sold more than one million industrial measuring instruments worldwide. We are proud to be present in more than 80 markets through our subsidiaries and distributors, and to have our instruments used with satisfaction in many industries...

## LEVEL TRANSMITTERS

PiloTREK  
MicroTREK  
NIVOCAP  
NIVOPRESS D  
NIVOPRESS N  
NIVOTRACK  
NIVOFLIP  
EasyTREK  
EchoTREK

## LEVEL SWITCHES

NIVOFLOAT  
NIVOCONT K  
NIVOMAG  
NIVOPOINT  
NIVOSWITCH  
NIVOCONT R  
NIVOROTA  
NIVOCAP CK

## ANALYTICAL TRANSMITTERS

AnaCONT LEP / LER  
AnaCONT LED  
AnaCONT LCK

## TEMPERATURE MEASUREMENT

THERMOPOINT  
THERMOCONT TG / TF  
THERMOCONT TS / TP  
THERMOCONT TN / TX  
THERMOCONT TT

## INDUSTRIAL SENSORS

MICROSONAR

## FLOW MEASUREMENT

NIVOSONAR

## PRESSURE SENSORS

NIPRESS DK  
NIPRESS D  
NIPRESS DD

## SIGNAL PROCESSING UNITS

MultiCONT  
MonoCONT  
UNICONT PM

## SYSTEM COMPONENTS

UNICONT PJK  
UNICONT PKK  
UNICONT PDF / PLK  
UNICONT PGK  
NIPOWER  
NITIME  
UNICOMM

## SOFTWARE

NIVISION  
EView2  
MobileEView

## LEGEND



Water & wastewater industry



Food & beverage



Packaging industry



Construction materials



Heavy industry



Oil & gas



Agriculture



Chemical & pharmaceutical



Energy production

# LEVEL TRANSMITTERS

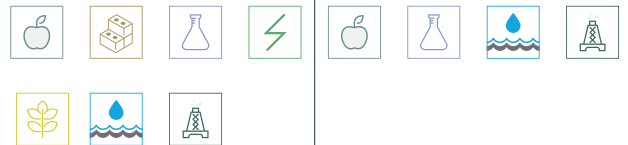
## NON-CONTACT MICROWAVE

<b>NEW</b> COMPACT	<b>NEW</b> INTEGRATED	COMPACT	INTEGRATED
<ul style="list-style-type: none"> <li>Plastic, aluminum or stainless steel housing</li> <li>1", 1½" horn and plastic encapsulated antennas</li> <li>IP66 / IP67 protection</li> <li>Plug-in graphic display</li> <li>NIFLANGE weldable stainless steel flange variants</li> </ul>	<ul style="list-style-type: none"> <li>Plastic housing</li> <li>1", 1½" encapsulated horn antenna</li> <li>Integrated design with IP66 / IP68 protection</li> <li>Marine applications</li> </ul>	<ul style="list-style-type: none"> <li>Plastic, aluminum or stainless steel housing</li> <li>Stainless steel parabolic, horn or plastic-coated antenna</li> <li>Plug-in graphic display</li> <li>High-temperature variant</li> <li>NIFLANGE weldable stainless steel flange variants</li> </ul>	<ul style="list-style-type: none"> <li>Plastic housing</li> <li>Horn, parabolic antenna</li> <li>Stainless steel or plastic-coated sensor</li> <li>Where IP68 is needed</li> </ul>

- 2-wire 80 GHz (W-band) radar
  - Accuracy of  $\pm 2$  mm
- Easy to install due to small antenna diameter
  - User-friendly threshold management
- Configuration via Bluetooth® with MobileEView app
  - PACTware™ compatible
- For measuring the level of liquids, emulsions, and other media up to 30 m
  - For large-particle bulk solids
- Storage tanks, chemical tanks, open pits, sumps, wells
  - Measurement through a plastic tank roof
  - For material prone to vapor formation
  - For measuring liquids with a gas blanket
    - It can also be used in a vacuum
  - Open-channel flow measurement

- 2-wire transmitters
- 25 GHz (K-band) measuring signal
  - Accuracy up to  $\pm 3$  mm
  - Measuring range up to 23 m
  - 99-point linearization
  - PACTware™ compatible
- Check out the new W-200, it might be right for your application
- Level measurement of liquids, emulsions and other chemicals

5 YEARS WARRANTY



Supply Voltage	12...36 V DC		20...36 V DC	
Ambient Temperature	-40...+80 °C; PP sensor: -30...+80 °C	PVDF housing: -40...+80 °C; PP housing: -30...+80 °C	-20...+60 °C	
Process Temperature	-40...+70 °C; with display: -20...+70 °C		-30...+180 °C	-30...+100 °C
Process Pressure	PP, PVDF, PTFE antennas: -1...3 bar; Stainless steel antennas: -1...40 bar	-1...3 bar	-1...25 bar	-1...3 bar
Output	Bluetooth® LE 5.1 (optional), 4...20 mA + HART®, optional SPDT output, service interface		4...20 mA, HART®	
Process Connection	1", 1½" BSP / NPT, prepared for welded flange	1", 1½" BSP / NPT	1½", 2", or flanges or sanitary	
Ingress Protection	IP66 / IP67	IP66 / IP68	IP67	IP68
Certificates	ATEX, ANATEL		ATEX, IEC Ex, INMETRO	
Measuring Range	up to 30 m		0.2...23 m	



PiloTREK WE-200

PiloTREK WP-200



DISCONTINUING PRODUCT

PiloTREK W-100

# LEVEL TRANSMITTERS

## GUIDED MICROWAVE

## CAPACITIVE

- 2-wire compact transmitter
- $\pm 5$  mm 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
- Plastic, aluminum or stainless steel housing
- Up to 30 m measuring range
- Tracking speed: 900 m/h (= 25 cm/s)
- Advanced threshold management
- False echo exclusion
- Interface measurement
- Probe Correction Table (SCT)
- PACTware™ compatible
- Level, distance or volume measurement of liquids, powders, granules with  $\epsilon_r > 1.4$
- 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

- 2-wire compact transmitter
- High sensitivity
- Rod (0.2...3 m) or cable (1...20 m) probe
- Plastic, aluminum or stainless steel housing
- Partially or fully insulated probe
- Plug-in display module
- 32-point linearization
- PACTware™ compatible
- Explosion-proof variants
- Distance, level and volume measurement of liquids, powders, granules, with  $\epsilon_r > 1.5$  relative dielectric constant
- Chemicals with dense gas layers above the surface
- High pressure, high-temperature or vacuum
- Viscous or corrosive media

5 YEARS WARRANTY



Supply Voltage	12...36 V DC	12...36 V DC
Ambient Temperature	-30...+65 °C	-25...+70 °C
Process Temperature	-30...+200 °C	-30...+200 °C
Process Pressure	-1...40 bar	up to 40 bar
Output	4...20 mA, HART®, relay (optional)	4...20 mA, HART®
Process Connection	1", 1½", TriClamp, flanges or sanitary	1", 1½"
Ingress Protection	IP67	Probe: IP68. Housing: IP67
Certificates	ATEX, IEC Ex, INMETRO, UKCA Ex	ATEX
Measuring Range	up to 30 m	up to 20 m



MicroTREK

NIVOCAP

## LEVEL TRANSMITTERS

### HYDROSTATIC

- 2-wire compact transmitter
  - 1.4435 stainless steel diaphragm
  - 18 measuring ranges from 0.1 bar
  - Adjustable analog output
  - Secondary overvoltage protection
  - Long time stability
  - Accuracy: 0.25%
  - Plug in display module
  - High-temperature range
  - High overload capability
  - Programmable delay
  - PACTware™ compatible
- Level measurement of most foaming liquids and masses in tanks and vessels
  - Viscous or corrosive materials
  - Chemicals with dense vapor or gas layers above the surface

**NEW**

### SUBMERSIBLE HYDROSTATIC

- 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 (up to 450 m)
  - Reverse polarity protection
  - Optional lightning protection
  - Linearity error:  $\pm 0.25\%$
  - Integrated Pt100 temperature sensor
  - Explosion-proof variants
  - Detachable variants
  - PACTware™ compatible
- Level measurement of small diameter pipes, sewage, salt solutions, sea water, drinking water
  - Borehole transmitter for the water industry

5 YEARS WARRANTY



10...36 V DC

-40...+70 °C

-25...+125 °C

up to 400 bar

-

½", 1", 1½", TriClamp, flanges

IP65

ATEX



12...30 V DC

-

-40...+80 °C

-

4...20 mA, HART®, 0...10 V

-

IP68

ATEX, UKCA Ex, BV (Marine)

up to 350 m



NIVOPRESS D



NIVOPRESS N

# ADVANCED 80 GHz RADAR









Bluetooth®



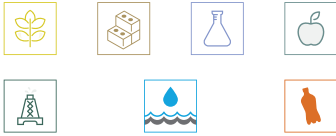

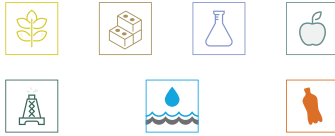




PiloTREK W-200

ANYTHING GOES...

# LEVEL TRANSMITTERS

MAGNETOSTRICTIVE		BYPASS LEVEL INDICATOR	
INTEGRATED	COMPACT		
<ul style="list-style-type: none"> <li>Low cost version</li> <li>2-wire integrated transmitter</li> <li>1 mm resolution</li> <li>Distance and level measurement</li> <li>Normal and mini rigid guide tube versions</li> <li>Stainless steel, titanium or plastic floats</li> <li>IP65 protection</li> <li>HART® communication</li> </ul> <ul style="list-style-type: none"> <li>Chemicals, solvents, hydrocarbons</li> <li>Level monitoring of tanks</li> <li>Interface measurement</li> <li>Level measurement of liquids, with min. 0.4 kg/dm<sup>3</sup> density</li> </ul>	<ul style="list-style-type: none"> <li>2-wire compact transmitter</li> <li>0.1 mm or 1 mm resolution</li> <li>Stainless steel, titanium or plastic floats</li> <li>Plug-in graphic display module</li> <li>99-point linearization</li> <li>Distance, level and volume measurement</li> <li>PACTware™ compatible</li> <li>Explosion-proof variants</li> </ul> <ul style="list-style-type: none"> <li>Level measurement of normal and flammable liquids, with minimum 0.4 kg/dm<sup>3</sup> density</li> <li>Interface measurement</li> <li>Chemicals, solvents, hydrocarbons</li> <li>Custody transfer measurement (OIML R 85)</li> <li>Oil industry ATG (Automatic Tanking Gauge)</li> </ul>	<ul style="list-style-type: none"> <li>Operation without power supply</li> <li>Clearly visible display</li> <li>Stainless steel bypass chamber</li> <li>Error indication</li> <li>Optional MAK-100 / MAK-200 strap-on level switches</li> <li>Optional magnetostrictive level transmitter</li> <li>Accuracy: ±10 mm</li> <li>Titanium float</li> <li>High-temperature version</li> <li>Explosion-proof version</li> <li>Aluminum or stainless steel indicator housing</li> <li>Bypass measuring chamber version without indicator</li> </ul> <ul style="list-style-type: none"> <li>Level measurement of pressurized vessels, boilers and tanks</li> </ul>	
5 YEARS WARRANTY			
   			
Supply Voltage	12.5...36 V DC	-	
Ambient Temperature	-40...+70 °C	-	
Process Temperature	-40...+90 °C	-60...+250 °C	
Process Pressure	up to 25 bar	up to 100 bar	
Output	4...20 mA + HART®	-	
Process Connection	1", 2" BSP; 1", 2" NPT	1", 2" or flanges	DIN, ANSI flanges
Ingress Protection	IP65	IP67, IP68	IP65
Certificates	-	ATEX, IEC Ex, OIML R 85	ATEX, PED
Other	Measuring Range: 0.3...3.5 m  	Measuring Range: 0...15 m   	Medium Density: min. 0.75 kg/dm <sup>3</sup> Flange Distance (CL to CL): 500...5500 mm  
<b>NIVOTRACK</b>		<b>NIVOFLIP</b>	

# LEVEL TRANSMITTERS

ULTRASONIC INTEGRATED		ULTRASONIC COMPACT	
FOR LIQUIDS	FOR SOLIDS	FOR LIQUIDS	FOR SOLIDS
<ul style="list-style-type: none"> <li>Non-contact level metering</li> <li>Narrow, 5° beam angle</li> <li>Excellent signal processing</li> <li>Temperature compensation</li> <li>32-point linearization (99-point for SP-500 Pro)</li> <li>Explosion-proof variants</li> <li>Fail-safe indication</li> </ul>			
<ul style="list-style-type: none"> <li>2-wire transmitter</li> <li>PP, PVDF, PTFE housing and transducers</li> <li>Advanced threshold management</li> <li>Quick start mode</li> <li>Faster measurement cycle</li> <li>Service Interface</li> <li>PACTware™ compatible (SP-500 Pro)</li> <li>Measurement of level and volume</li> <li>Open-channel flow metering</li> <li>For challenging applications such as vapor, fume, mixing blades, and light foam</li> <li>Level measurement of liquids, wastewater, aggressive chemicals and slurries</li> </ul>	<ul style="list-style-type: none"> <li>4-wire transmitter</li> <li>PP and aluminum housing transducers with PVC foam</li> <li>Joystick aiming device</li> <li>Level measurement of free flowing solids</li> <li>Level and volume measurement</li> <li>For challenging applications such as long distance measurement and light dust during filling</li> </ul>	<ul style="list-style-type: none"> <li>2- or 4-wire transmitter</li> <li>PP, PVDF, PTFE housing and transducers</li> <li>Plug-in display module</li> <li>Plastic, aluminum or stainless steel housing</li> <li>Advanced threshold management</li> <li>Quick start mode</li> <li>Faster measurement cycle</li> <li>PACTware™ compatible</li> <li>Measurement and display of level and volume</li> <li>Open channel flow measurement</li> <li>For challenging applications such as vapor, fume, mixing blades, and light foam</li> </ul>	<ul style="list-style-type: none"> <li>4-wire transmitter</li> <li>PP and aluminum housing transducers with PVC foam</li> <li>Joystick aiming device</li> <li>Plug-in display module</li> <li>Powder-coated aluminum housing</li> <li>PACTware™ compatible</li> <li>Measurement and display of level and volume</li> <li>For challenging applications such as long distance measurement and light dust during filling</li> </ul>
5 YEARS WARRANTY			
			
11...36 V DC	11.4...40 V DC; 11.4...28 V AC	2-wire: 12...36 V DC; 4-wire: 85...255 V AC, 20...28 V AC/DC	85...255 V AC; 11.4...40 V DC; 11.4...28 V AC
-30...+80 °C	-30...+60 °C	-30...+70 °C	-30...+60 °C
-30...+90 °C	-30...+60 °C	-30...+100 °C	-30...+75 °C
0.5...3 bar (absolute)	0.7...1.1 bar	0.5...3 bar (absolute)	0.7...1.1 bar
4...20 mA, HART®, relay			
1" BSP, 1½" and 2" NPT	1" BSP and joystick aiming device	1½", 2" BSP / NPT, flange	joystick aiming device
IP68	IP65	IP67	IP65
ATEX, INMETRO, UKCA Ex	ATEX, EAC Ex	ATEX, INMETRO, UKCA Ex	ATEX
Measuring Range: 0.15...25 m (Pro: 0.15...18 m)	Measuring Range: 0.6...60 m	Measuring Range: 0.2...25 m	Measuring Range: 0.6...60 m
			
EasyTREK & EasyTREK Pro	EasyTREK	EchoTREK	EchoTREK

# LEVEL SWITCHES

## FLOAT

- Operation without power supply
- Low cost polypropylene level switch
- Airtight, dual-walled chamber
- Mercury-free microswitch
- PVC or neoprene cable
- Adjustable switch differential
- Variants for potable water
- For low density liquids
- Suitable also for tanks and basins
- Industrial and communal sewage
- Suitable for drinking water
- Fail-safe indication and pump control
- Overfill protection

3 YEARS WARRANTY

## CONDUCTIVE

- Reasonable price
- Limit switch or differential switch versions
- Hysteresis mode
- Adjustable sensitivity and 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 minimum 10  $\mu\text{S}/\text{cm}$  conductivity
- Fail-safe indication and pump control

5 YEARS WARRANTY

## MAGNETIC COUPLING

- Operation without power supply
- Microswitch 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
- NIFLANGE weldable stainless steel flange variants
- SIL 1
- Painted aluminum or stainless steel housing
- Liquids with min. 0.7  $\text{kg}/\text{dm}^3$  density
- Fail-safe and control level switches in closed tanks
- Ballast tanks of ships



Supply Voltage	–	24...240 V AC/DC	–
Ambient Temperature	–	–20...+50 °C	–20...+80 °C
Process Temperature	0...+50 °C	up to +200 °C	–40...+250 °C
Process Pressure	NL-100: up to 1 bar, NW-100: up to 2 bar	up to 16 bar	up to 25 bar
Switch Rating	250 V AC, 10(3)A	250 V AC, 16 A / 8 A	250 V AC, 10 A NO/NC
Process Connection	–	3/8", 1 1/2"	flanges or 2" thread
Ingress Protection	IP68	IP20, IP67	IP65, IP68
Certificates	–	–	ATEX, IEC Ex, INMETRO, SIL 1, DNV (Marine), BV (Marine)

Microswitch: 1 or 2



NIVOFLOAT



NIVOCONT K













NIVOMAG



# LEVEL SWITCHES

MAGNETIC TRACKING	VIBRATING FORK	
	FOR LIQUIDS	FOR SOLIDS
<ul style="list-style-type: none"> <li>Operation without power supply</li> <li>Reed switch output</li> <li>Wetted parts stainless steel or plastic</li> <li>Up to 5 switching points</li> <li>Vertical adjustability of all switching points</li> <li>Various process connections</li> <li>Flame-proof variants</li> </ul> <ul style="list-style-type: none"> <li>Liquids with minimum 0.4 kg/dm<sup>3</sup> density</li> <li>Multi-point level switch in closed tanks</li> <li>Foaming liquids, chemicals with dense vapor or gas layer above the surface</li> </ul>	<ul style="list-style-type: none"> <li>No moving parts</li> <li>Stainless steel and plastic-coated probes</li> <li>Pipe extension up to 3 m</li> <li>Various output configurations</li> <li>High or low fail-safe mode</li> <li>Plastic, aluminum or stainless steel housing</li> <li>Explosion-proof variants</li> <li>For corrosive, thick, turbulent, flowing liquids</li> <li>NIFLANGE weldable stainless steel flange variants</li> <li>Process pressure: up to 40 bar</li> </ul> <ul style="list-style-type: none"> <li>Most liquids with minimum 0.7 kg/dm<sup>3</sup> density and maximum 10<sup>4</sup> mm<sup>2</sup>/s viscosity</li> </ul>	<ul style="list-style-type: none"> <li>No moving parts</li> <li>Stainless steel probes</li> <li>Pipe extension up to 3 m</li> <li>Various output configurations</li> <li>Selectable density</li> <li>High or low fail-safe mode</li> <li>Plastic, aluminum or stainless steel housing</li> <li>NIFLANGE weldable stainless steel flange variants</li> <li>Dust-Ex variants</li> </ul> <ul style="list-style-type: none"> <li>Granules and powders with minimum 0.01 kg/dm<sup>3</sup> bulk density</li> </ul>
5 YEARS WARRANTY	3 YEARS WARRANTY	
		
-	20...255 V AC, 20...60 V DC	
-40...+95 °C	-40...+70 °C	
-40...+150 °C	-40...+130 °C	
up to 25 bar	up to 40 bar	
250 V AC, 3 A	1 or 2 relays (SPDT), 2-wire AC / DC, transistor (PNP, NPN)	
1" or 2" or flanges	1", 1½", 2" or flanges or hygienic fittings	1", 1½", 2" or flanges
IP67, IP68	IP67, IP68, IP65	
ATEX, BV (Marine)	ATEX, IEC Ex, UKCA Ex, DNV (Marine)	ATEX
		
NIVOPOINT	NIVOSWITCH	

## LEVEL SWITCHES

	VIBRATING ROD	ROTARY PADDLE	RF-CAPACITANCE
	<ul style="list-style-type: none"> <li>No moving parts</li> <li>Self-cleaning for most mediums</li> <li>Stainless steel vibrating section</li> <li>Pipe (0.3...3 m) or flexible cable extension (1...20 m)</li> <li>Plastic or aluminum housing</li> <li>Selectable density</li> <li>High or low fail-safe mode</li> <li>Selectable switching delay</li> <li>Dust-Ex variants</li> </ul> <ul style="list-style-type: none"> <li>Granules and powders with min. 0.05 kg/dm<sup>3</sup> bulk density</li> <li>For grain, flour, plastic granules, cement, fly ash, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Plastic or aluminum housing</li> <li>Long service time</li> <li>Motor shut-off feature</li> <li>Flexible coupling</li> <li>Wide range of paddles</li> <li>Solid pipe or flexible cable extension (0.3...3 m)</li> <li>Sealed bearings</li> <li>Status indicator LED</li> <li>High-temperature version</li> <li>Dust-Ex variants</li> <li>Rotary force independent of the supply voltage</li> <li>Low supply voltage is indicated by a blinking LED</li> </ul> <ul style="list-style-type: none"> <li>Granules and powders with minimum 0.1 kg/dm<sup>3</sup> density</li> <li>High or low fail-safe</li> <li>Feed, coal, sand, rocks, limestone, metals, rubber, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Intelligent electronic level switch</li> <li>Build-up immunity</li> <li>Easy calibration</li> <li>Selectable sensitivity</li> <li>Fail-safe operation mode</li> <li>Solid pipe (0.7...3 m) or flexible cable extension (1...10 m)</li> <li>High-temperature version</li> <li>Dust-Ex variants</li> </ul> <ul style="list-style-type: none"> <li>For solids with <math>\epsilon_r \geq 1.5</math> and liquids</li> <li>For high viscosity, sticky materials</li> <li>Designed for special applications such as hopper plugging and hot ash</li> </ul>
	5 YEARS WARRANTY	3 YEARS WARRANTY	5 YEARS WARRANTY
			
			
			
Supply Voltage	20...255 V AC/DC	230 V AC, 120 V AC, 24 V AC, 24 V DC	20...250 V AC / 20...50 V DC
Ambient Temperature	-30...+60 °C	-30...+60 °C	-30...+65 °C
Process Temperature	-30...+160 °C	-20...+200 °C	-30...+235 °C
Process Pressure	up to 25 bar	up to 3 bar	up to 16 bar
Output	relay (SPDT) or electronic switch (SPST)	250 V AC 5 A, AC1	relay (SPDT) or electronic switch (SPST)
Process Connection	1½"	1¼ NPT; 1", 1½" BSPT/NPT; mounting plate	¾", 1", 1½"
Ingress Protection	IP67		
Certificates	ATEX, IEC Ex, UKCA Ex, KCs Ex	ATEX, UKCA Ex	ATEX, IEC Ex
			
	<b>NIVOCONT R</b>	<b>NIVOROTA</b>	<b>NIVOCAP CK</b>

# ANALYTICAL TRANSMITTERS

pH / ORP	DISSOLVED OXYGEN	CONDUCTIVITY
<ul style="list-style-type: none"> <li>▪ 2-wire compact and integrated transmitter</li> <li>▪ Plug-in graphic display module</li> <li>▪ Temperature compensation</li> <li>▪ Separated version up to 10 m</li> <li>▪ Glass, polycarbonate probes</li> <li>▪ Wide probe selection to suit a host of applications</li> <li>▪ Wide selection of accessories</li> <li>▪ Power relay output, programmable</li> <li>▪ Explosion-proof variants</li>   <li>▪ Continuous pH or redox potential (ORP) measurement of highly alkaline mediums, suspensions, contaminated fluids, emulsions</li> </ul>	<ul style="list-style-type: none"> <li>▪ 2-wire compact transmitter</li> <li>▪ Wide probe selection to suit a host of applications</li> <li>▪ Plug-in graphic display module</li> <li>▪ Temperature compensated</li> <li>▪ Separated version up to 10 m</li> <li>▪ Power relay output, programmable</li> <li>▪ Wide selection of accessories</li> <li>▪ Explosion-proof variants</li>   <li>▪ Continuous dissolved oxygen measurement of surface waters, aeration processes, swimming pool equipments</li> </ul>	<ul style="list-style-type: none"> <li>▪ 2-wire mini compact transmitter</li> <li>▪ Wide range of measurement</li> <li>▪ Plug-in display</li> <li>▪ Wide probe selection to suit a host of applications</li> <li>▪ Wide selection of accessories</li> <li>▪ PACTware™ compatible</li>   <li>▪ Continuous conductivity measurement of swimming pool technology and drinking water equipment</li> <li>▪ Water purification</li> </ul>

5 YEARS WARRANTY



Supply Voltage	12...36 V DC	
Ambient Temperature	-30...+70 °C	0...+70 °C
Process Temperature	-15...+100 °C	-10...+70 °C
Process Pressure	up to 16 bar	up to 1 bar
Output	4...20 mA, HART®, relay	
Process Connection	1½" BSP / NPT	
Ingress Protection	IP67, IP68	Probe: IP68, Housing: IP67
Certificates	ATEX	
Measuring Range	pH: 0...14 pH ORP: ±1000 mV	0...10 ppm, 0...20 ppm
		1...20 µS/cm 10...200 µS/cm 100...2000 µS/cm















AnaCONT LEP / LER

AnaCONT LED

AnaCONT LCK



# TEMPERATURE MEASUREMENT

TEMPERATURE TRANSMITTER	MULTI-POINT TEMPERATURE TRANSMITTER		
	FOR LIQUIDS	FOR SOLIDS	
<ul style="list-style-type: none"> <li>2-wire compact transmitter</li> <li>Plug-in graphic display</li> <li>Integral "A" / "B" class Pt100 probe</li> <li>Stainless steel or PFA-coated probes</li> <li>Probe length up to 3 m</li> <li>Aluminum or plastic housing</li> <li>4...20 mA, HART® communication</li> <li>Fully programmable</li> <li>Heavy duty field mountable housing</li> <li>Explosion-proof variants</li> <li>NIIFLANGE weldable stainless steel flange variants</li> <li>Transmission to long distances</li> <li>Versions for tanks, vessels, pipelines</li> <li>Temperature measurement and local indication of normal and hazardous liquids and gases</li> </ul>	<ul style="list-style-type: none"> <li>2-wire multi-point temperature transmitter</li> <li>Digitally addressed sensors</li> <li>Up to 15 sensors</li> <li>Average, max, min temperature measurement</li> <li>Plug-in graphic display</li> <li>Rigid or flexible probes</li> <li>System capability</li> <li>Replaceable sensors</li> <li>PACTware™ compatible</li> <li>Intrinsically safe variants</li> <li>Continuous multi-point temperature measurement, display, transmission and trending of normal and hazardous liquids</li> </ul>	<ul style="list-style-type: none"> <li>2-wire multi-point temperature transmitter</li> <li>Digitally addressed sensors</li> <li>Up to 15 sensors</li> <li>Average, max, min temperature measurement</li> <li>Plug-in graphic display</li> <li>Flexible plastic-coated probe version</li> <li>Rigid or flexible probes</li> <li>System capability</li> <li>Replaceable sensors</li> <li>PACTware™ compatible</li> <li>Intrinsically safe and Dust-Ex variants</li> <li>Continuous multi-point temperature measurement, display, transmission and trending of powdered and granular solids in storage silos, grain mills, animal feeds</li> </ul>	
5 YEARS WARRANTY			
  	  	  	
Supply Voltage	10...36 V DC	11...36 V DC	
Ambient Temperature	-40...+70 °C	-30...+65 °C	
Process Temperature	-	-	
Process Pressure	max. 25 bar	-	
Output	4...20 mA, HART®		
Process Connection	M20×1.5; ½"; flanges	1"; 1½" BSP / NPT; M20×1.5	1½" BSP / NPT
Ingress Protection	Probe: IP68, Housing: IP65	Probe: IP66 , IP68, Housing: IP67	
Certificates	ATEX		
Other	Measuring range: -50...+600 °C 	Measuring range: -40...+125 °C Number of Sensors: up to 15 Probe Length: rigid probe: 1...4 m; flexible probe: 1...50 m 	Measuring range: -40...+85 °C Number of Sensors: up to 15 Probe Tensile Force: 35 kN Probe Length: 1...50 m 
<b>THERMOCONT TT</b>		<b>THERMOPOINT</b>	

# TEMPERATURE MEASUREMENT

TEMPERATURE SENSOR	ENCAPSULATED TEMPERATURE SENSOR	STRENGTHENED PROBE TEMPERATURE SENSOR
<ul style="list-style-type: none"> <li>▪ Single or dual Pt100 sensor versions</li> <li>▪ 2, 3 or 4 wire types</li> <li>▪ Fast response sensor version</li> <li>▪ Stainless steel protection tube</li> <li>▪ Up to 500 mm insertion length</li> <li>▪ Temperature metering in bearing, baking tray</li> <li>▪ Mounting bolts allow the sensors to be screwed into various threads</li>   <li>▪ For temperature control of heated tools</li> <li>▪ Bearing temperature sensing for motors, pumps</li> </ul>	<ul style="list-style-type: none"> <li>▪ Single or dual Pt100 sensor versions</li> <li>▪ 2 or 4-wire types</li> <li>▪ Double sensor protection tube</li> <li>▪ Fast response sensor version</li> <li>▪ Plastic-coated or stainless steel protection tub</li> <li>▪ Up to 3 m insertion length</li> <li>▪ Vibration-resistant version</li> <li>▪ Explosion-proof variants</li>   <li>▪ Can be mounted to special technological places, tanks, tubes, furnaces or boilers</li> <li>▪ Special versions for unique applications</li> <li>▪ Temperature measurement of liquids, gases, vapors</li> <li>▪ Coated version for temperature measurement in aggressive media</li> </ul>	<ul style="list-style-type: none"> <li>▪ Robust design for heavy chemical industry</li> <li>▪ Stainless steel, drilled, tapered thermowell case</li> <li>▪ Up to 800 mm insertion length</li> <li>▪ Sensor can be replaced without removing the instrument from the process</li> <li>▪ Vibration-resistant version</li> <li>▪ 2- or 4-wire types</li> <li>▪ Plug-in graphic display</li> <li>▪ Welded flange</li> <li>▪ Gas thermometer version</li> <li>▪ Explosion-proof variants</li>   <li>▪ Temperature measurement of liquids, gases, vapors</li> <li>▪ Special versions for unique applications</li> <li>▪ For applications exposed to mechanical damage</li> </ul>

5 YEARS WARRANTY

		
-	-	-
-30...+100 °C	-20...+80 °C	-30...+80 °C
-	-	-
up to 60 bar	up to 25 bar	up to 80 bar
-	-	-
M20×1.5; M8×1, integrated cable version up to 12 m	M20×1.5; ½"; flanges	1" or flanges
IP65, IP54	IP67	IP65, IP67
-	ATEX	ATEX

Measuring Range: -50...+200 °C  
Sensor Type: "A" / "B" class Pt100



THERMOCONT TG / TF

Measuring Range: -50...+600 °C  
Sensor Type: "A" / "B" class Pt100



THERMOCONT TSP

Measuring Range: -50...+600 °C  
Sensor Type: "A" / "B" class Pt100,  
or J, K thermocouple



THERMOCONT TN / TX



**Simplify  
Your  
Selection,  
Maximize  
Your  
Results!**

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## INDUSTRIAL SENSORS

## FLOW MEASUREMENT

### ULTRASONIC PROXIMITY SENSOR

### OPEN-CHANNEL

- Non-contact distance metering
  - Analog 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

- 9 different sizes, compact versions of Parshall flumes made of plastic (PP)
  - Factory calibrated dimensions
  - Level transmitters are sold separately: EasyTREK or EchoTREK
  - 4...20 mA, HART® communication
  - For open-channels, treated effluent sewage measurements
  - Certification of measurement
- For open-channels, gravitational channels
  - Measurement of feed or process water
  - Yield measurement of irrigation canals
  - Treated sewage effluent measurement

5 YEARS WARRANTY

3 YEARS WARRANTY



10.8...30 V DC

12...36 V DC, 20...28 V AC/DC, 85...255 V AC

-20...+70 °C

-

-

-

-

-

0...10 V, 4...20 mA, NPN / PNP switch

4...20 mA, HART®

-

IP67, IP68

IP65, IP67 / IP68

-

-

Ranges: 0.2...1 m / 0.4...6 m

Measuring range: 0.94...6627 m³/h  
Level transmitters: EasyTREK, EchoTREK



MICROSONAR

NIVOSONAR

# PRESSURE SENSORS

## PRESSURE SWITCHES

- Relative or absolute measuring mode
- Configurable 4-digit swivel display module
- Configurable via PC or programming device
- Stainless steel housing versions
- Ex ia variants\*
- Integrated cable version
- 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 harsh conditions
- Hygienical versions

## PRESSURE TRANSMITTERS

- Relative or absolute measuring mode
- For high pressures (up to 2200 bar)
- For vacuum, overpressure and absolute pressure measurement
- Measurement range turndown
- Two-chamber cast aluminum or stainless steel housing
- Optional plug-in graphic display
- Ex ia or Ex d variants\*
- SIL 2 version\*
- Water, waste water, fuel and oil, aggressive media, gases
- Plant and machine engineering, hydraulics, HVAC
- Environmental engineering, medical technology, laboratory techniques
- For potable water

## DIFFERENTIAL PRESSURE TRANSMITTERS

- Relative measuring mode
- Measurement range turndown
- Up to 2 contacts
- Cast aluminum housing
- Static overpressure 400 bar
- High accuracy
- Mechanical robust versions
- Hastelloy® sensor version
- Optional plug-in graphic display
- Ex ia variants\*
- Measurement of pressure difference of gases, compressed air and liquids in closed, pressurized tanks
- Plant and machine engineering, HVAC
- Compact design versions for integration in applications with limited space

5 YEARS WARRANTY



Sensor	silicon, ceramic, stainless steel	ceramic, stainless steel	silicon, stainless steel
Ambient Temperature	-40...+85 °C		
Process Temperature	-40...+125 °C	-40...+300 °C	-40...+125 °C
Nominal Pressure Gauge	-1...600 bar	-1...2200 bar	0...70 bar
Accuracy	0.25%; 0.5%, 1%	0.1%; 0.2%; 0.25%; 0.5%	0.075%, 0.1%, 0.5%, 1%
Output	1, 2 or 4 PNP contacts	4...20 mA, 0...10 V, HART®	
Process Connection	1/8", 1/4", 1/2", 3/4", 1", 1 1/2", 2" or flanges or sanitary	1/4", 1/2", 3/4", 1", 1 1/2" or flanges 2", 3" RF; M20x1.5 internal thread	Ø6.6 x 11 (for flex. tubes Ø6), Ø4.45 x 10 (for flex. tubes Ø4), 1/4", 1/2" BSP; 1/4", 1/2" NPT, M20x1.5
Ingress Protection	IP54, IP65, IP67	IP65, IP67, IP68	IP54, IP65, IP67

\* If an Ex version is required, please request a custom quote based on the information in the price list. Orders based on the quote will be considered official.



NIPRESS DK



NIPRESS D



NIPRESS DD

# SIGNAL PROCESSING UNITS

## MULTICHANNEL PROCESS CONTROLLER

**NEW**

## SMART FIELD CONTROLLER & DISPLAY

## UNIVERSAL CONTROLLER / INDICATOR

- Provides a flexible solution to commissioning process control systems containing HART®-based intelligent (*level, temperature or pressure*) transmitters
- Large, easy-to-read backlit LCD or OLED display
- Datalogger memory: built-in 4 MB Flash memory  
SD card slot: max. 32 GB
- Tank visualization
- Simple 6-key programming
- Transmitter diagnostic capabilities
- Ex flameproof input variants
- Remote programming, displaying of transmitters
- Universal interface module expansion via RS485

- Provides a flexible solution to commissioning process control systems containing HART®-based intelligent (*level, temperature or pressure*) transmitters
- 4-key interface
- For 1 transmitter with HART® output
- Field loop display and controller module
- Ex variant
- Data logging to internal memory
- Remote programming, displaying of transmitter's data
- Process controller for HART®-compatible transmitters
- Displaying measured data in numerical and bargraph mode
- Data transmission via RS485 (*via Modbus protocol*)
- Simple data-logging function
- Trend or flow-measurement logging

- Programmable inputs
- Wide range of thermocouples (K, J, S...)
- Wide range of resistive thermal devices (Pt, JPt, Cu...)
- 0...20 mA, 4...20 mA, 0...10 V, 0...5 V, 1...5 V, and 0...100 mV inputs
- Dual LED, 4-digits
- Heavy-duty relay contacts or analog output
- 4...20 mA output
- ON-OFF, PD or PID control
- Auto-tuning feature
- 32-point linearization
- Current transformer (CT) input
- Temperature display of process values
- Switching, control or transmitting tasks
- Heating / cooling control
- Alarm

5 YEARS WARRANTY

3 YEARS WARRANTY



Supply Voltage	11.4...40 V DC; 11.4...28 V AC; 85...255 V AC	2-wire: Loop-powered, 4-wire: 8...32 V DC or 24 V AC	100...240 V AC; 20...48 V AC, 22...65 V DC
Ambient Temperature	-20...+50 °C	-40...+70 °C, (with display: -25...+70 °C)	-10...+55 °C
Input	1...15 HART® devices	1 HART® device	universal
Output	Internal: max. 2× 4...20 mA, max. 5× relays (SPDT) External: max. 16× 4...20 mA via RS485, max. 64× relays (SPDT)	4...20 mA, transistor, RS485,	relay, 4...20 mA, RS485, SSR driver
Ingress Protection	IP65	IP67	IP20 / IP54
Certificates	ATEX, IEC Ex, INMETRO, UKCA Ex	ATEX, INMETRO	-
Other	Storage Medium: SD card (max. 32 GB) Flash Memory ⇄ USB	Display: SAP-300 graphic display	Display: dual 4-digits LED display



Available in the third quarter of 2024

MultiCONT

MonoCONT

UNICONT PM



# SOFTWARE

PROCESS VISUALIZATION	HART® CONFIGURATION SOFTWARE	<b>NEW</b> CONFIGURATION APP
<ul style="list-style-type: none"> <li>▪ Communication with intelligent transmitters or switches and controllers</li> <li>▪ Tank configuration</li> <li>▪ Transmitter configuration</li> <li>▪ Client-server (1+15) or web browser based</li> <li>▪ Multiple alarm setpoints per measuring device</li> <li>▪ Real-time trend analysis</li> <li>▪ Data logging</li> <li>▪ Database handling</li> <li>▪ Archiving</li> <li>▪ “Web-Ready” symbols and animations</li> <li>▪ Remote connection on the Internet</li>   <li>▪ Custom-tailored software for industrial process visualization</li> <li>▪ Online monitoring of measured values</li> <li>▪ Tank-farm visualization</li> <li>▪ Alarm systems</li> <li>▪ Inventory management</li> </ul> <hr style="border: 1px solid red;"/> <p style="text-align: center; color: red; font-weight: bold;">1 YEAR WARRANTY</p>	<ul style="list-style-type: none"> <li>▪ Free configuration program</li> <li>▪ Remote programming and data retrieval for up to 15 HART®-enabled transmitters in a multidrop loop</li> <li>▪ Handling linearization table entries</li> <li>▪ Echo Map</li> <li>▪ Sensor calibration</li> <li>▪ Measurement data monitoring</li> <li>▪ Handling multiple HART® modems</li>   <li>▪ For easy setup and configuration</li> <li>▪ Remote programming</li> <li>▪ Displaying measurement data</li> <li>▪ Error detection</li> <li>▪ Limited trend monitoring</li> </ul>	<ul style="list-style-type: none"> <li>▪ Direct connection to transmitters with Bluetooth®</li> <li>▪ Live diagram display (trend), with automatic (~3 s) update</li> <li>▪ Echo list display with automatic update</li> <li>▪ Manually updates echo chart display</li> <li>▪ Current PV and SV values of transmitters display already in the device selector's initial screen</li> <li>▪ Full product identification, unique user ID</li> <li>▪ Log file saving</li>   <li>▪ Commissioning wizard</li> <li>▪ Maintenance wizard</li> <li>▪ Testing / Verification</li> <li>▪ Settings / Customization</li> </ul>
<p>Operation System: MS Windows 10, 8, 7, Vista, XP, 2000</p> <p>Input port: RS232, RS485, USB</p> <p>Free disk space required: min. 5 GB</p>	<p>Operation System: MS Windows 10, 8, 7, Vista, XP, 2000</p> <p>Free disk space required: 100 MB</p> <p>Memory: 512 MB RAM</p> <p>HART® modem: UNICOMM SAT-304, SAK-305, SAT-504</p>	<p>Operation System: Android 10+; iOS 12+</p> <p>Connection: Bluetooth®, HART®</p> <p>Language: EN, DE, HU, CZ, TR, RO, HR</p> <p>Help: WiFi or mobile internet required</p> <p>Required permissions: Bluetooth®, Location</p> <p>Compatible devices: PilotREK WP, WE-200; UNICOMM SAT-504-2</p>
<p style="text-align: center; color: teal;">Download demo:</p> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div>	<p style="text-align: center; color: teal;">Free download:</p> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div>	<p style="text-align: center; color: teal;">Free download:</p> <div style="text-align: center;">   </div> <div style="text-align: center;">  </div>
NIVISION	EView2	MobileEView

# SYSTEM COMPONENTS

## UNIVERSAL INTERFACE MODULE

- Universal expander module for MultiCONT
- RS485 communication
- Output variations:
  - 2× 4...20 mA current outputs
  - 2× Programmable relay outputs (250 V AC, 8 A)
  - For mixed systems: 1× current output and 1× relay
- DIN-rail-mountable
- Level controlling and limit level indication
- 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

## 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 variants
- 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

## LOOP DISPLAYS

- Loop-operated
- Operation without external power supply in 2-wire type
- Field display for transmitters
- Scalable display
- 20 mm digit height
- 4...20 mA to HART® converter version
- Heavy duty field mountable housing
- Aluminum, stainless steel or plastic housing
- Flameproof variants
- Universal field display for any transmitters
- Selectable physical parameter set
- Display of process values supplied by any transmitter
- If used as HART® converter, powers 2-wire transmitters

5 YEARS WARRANTY



Supply Voltage	24 V DC	110 V AC, 230 V AC, 24 V AC/DC	10...36 V DC
Ambient Temperature	-20...+50 °C	-25...+55 °C	-25...+70 °C
Input	RS485 interface	4...20 mA	
Output	- 2× relay 250 V AC, 8 A, AC1 - 2× current outputs (4...20 mA) - 1× relay + 1 current output	250 V AC, 8 A, AC1	4...20 mA, 4...20 mA + HART®
Display	-	-	6-digits LCD
Process Connection	DIN rail mounted (module width: 36 mm)		-
Ingress Protection	IP20		IP67
Certificates	ATEX, UKCA Ex		ATEX, INMETRO







UNICONT PJK

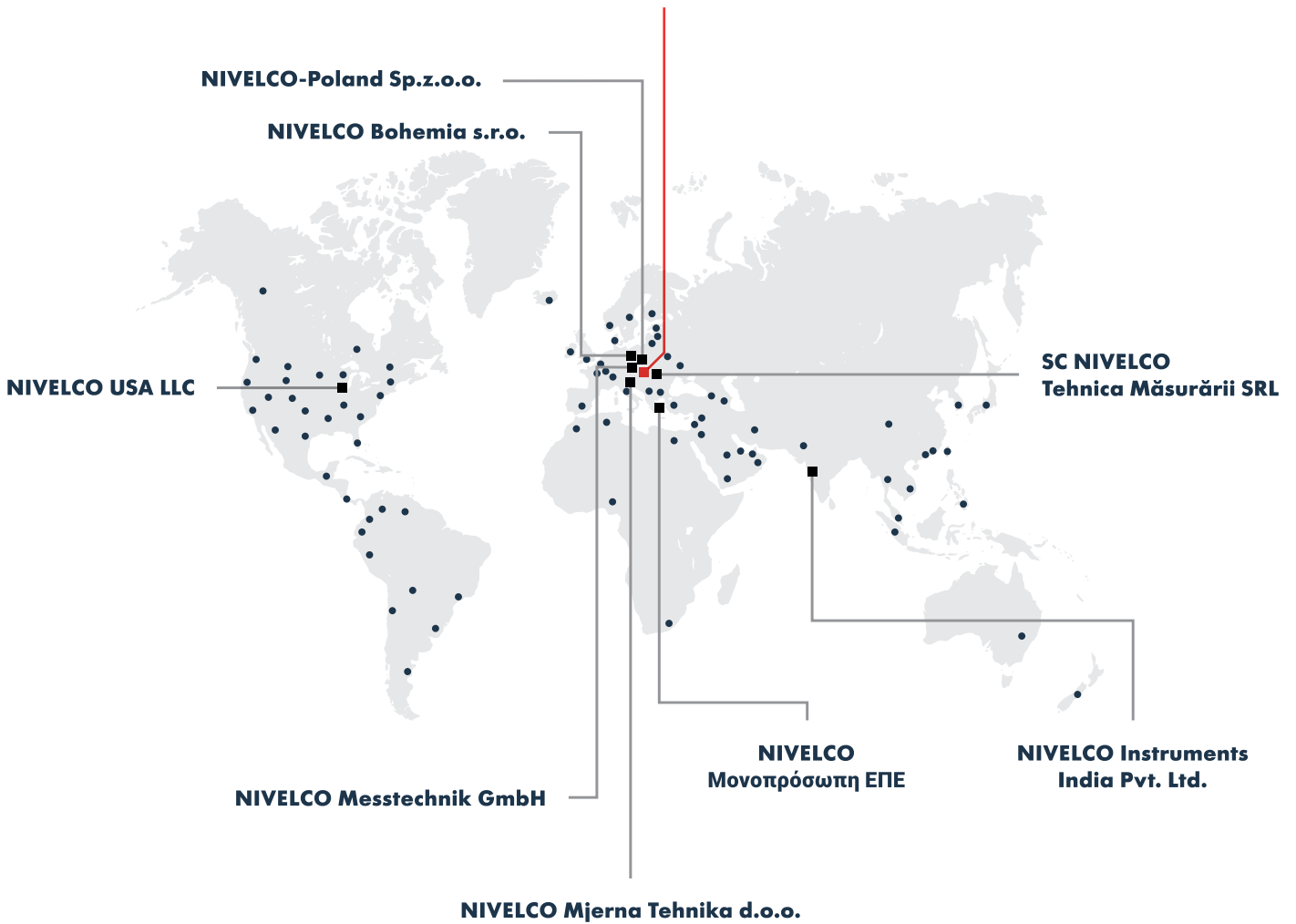
UNICONT PKK

UNICONT PDF / PLK

# SYSTEM COMPONENTS

INTRINSICALLY SAFE ISOLATOR MODULE	SWITCHING-MODE POWER SUPPLY MODULE	TIME RELAY MODULE	COMMUNICATION MODULE
<ul style="list-style-type: none"> <li>Isolated power supply for intrinsically safe transmitters</li> <li>DIN rail mountable</li> <li>Compatible with all devices using standard HART® communication</li> <li>For high-precision transmitters</li> <li>For transmitters operating in hazardous applications</li> <li>For supplying and isolating certified measurement instruments</li> </ul>	<ul style="list-style-type: none"> <li>DIN rail mountable</li> <li>Stabilized 12 V / 24 V DC output</li> <li>Switching-mode power supply</li> <li>Short-circuit protection</li> <li>Overload, overvoltage, overcurrent protection</li> <li>Power supply for transmitters and sensors</li> <li>For inductive, capacitive proximity switches</li> <li>For infrared or ultrasonic proximity sensors</li> </ul>	<ul style="list-style-type: none"> <li>2- and 10-function types</li> <li>Wide time range</li> <li>Small size</li> <li>Universal supply voltage</li> <li>DIN rail mountable</li> <li>Relay output</li> <li>Process controlling of repeated tasks</li> <li>Timed cycling of pumps or compressors</li> <li>Timing of technological equipments</li> <li>Sequential control</li> </ul>	<ul style="list-style-type: none"> <li>Communication interface (modem) between HART®-capable transmitters and PC</li> <li>Connecting field transmitter to the PC via USB, RS485 or Bluetooth®</li> <li>DIN rail mountable or test clip connector version</li> <li>No need for power supply when using USB output</li> <li>Galvanic isolation</li> <li>Explosion-proof variants</li> <li>24 V current loop supply voltage (SAT-504)</li> <li>Switchable HART® resistor</li> <li>Bluetooth® compatibility (SAT-504)</li> <li>Transferring measurement data to PC</li> <li>Integration of instruments to process control systems</li> <li>For on-site HART® programming</li> </ul>
5 YEARS WARRANTY	3 YEARS WARRANTY		5 YEARS WARRANTY
20...35 V DC	100...240 V AC / 50...60 Hz	12...240 V AC/DC	supplied from USB / 24 V DC / Powerbank
<p>Output voltage: 24 V DC</p> <p>Ambient temperature: -20...+60 °C</p> <p>Input / Output: 4...20 mA + HART®</p> <p>Accuracy: 1 µA, 8 µA</p> <p>Response time: 5 ms, 100 ms</p>	<p>Consumption: max. 60 VA / 33 W</p> <p>Output Voltage: 12 V DC (11...13 V DC adjustable), 24 V DC (23...25 V DC adjustable)</p> <p>Operating temperature: -20...+50 °C</p> <p>Electrical connection: Terminal, wire cross section: max. 2.5 mm<sup>2</sup></p>	<p>Time ranges: 0.1 s...100 days</p> <p>Output: relay, 250 V, 16 A, AC1</p>	<p>Input: HART® (KLEPS2 or screw terminal)</p> <p>Output: USB / RS485 / Bluetooth® (BLE, 5.x)</p>
DIN rail mounted (module width: 22.5 mm)	DIN rail mounted (module width: 35 mm)	DIN rail mounted (module width: 17.6 mm)	DIN rail mounted (module width: 35 mm) or portable version
IP20			IP20
ATEX, IEC Ex			ATEX
			
UNICONT PGK	NIPOWER	NITIME	UNICOMM

**NIVELCO Process Control Co.**



leveg24en042b // \*5-year warranty on most NIVELCO products. NIVELCO reserves the right to change specifications without notice!



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#NivelcoDevices



 **Industrial automation**  
for a smarter future.

