



5 YEARS  
WARRANTY\*

**NEW**  
PRODUCTS INSIDE

# PRODUCT OVERVIEW

**85**  
YEARS OF INNOVATION IN  
INDUSTRIAL INSTRUMENT  
MANUFACTURING

**NIVELCO**

**2025/2**

# We are **NIVELCO**

IN THE MORE THAN FOUR DECADES SINCE ITS FOUNDING, NIVELCO HAS BECOME A GLOBALLY RESPECTED & LEADING PLAYER IN THE MARKET, AND HAS SOLD MORE THAN 1.5 MILLION INDUSTRIAL MEASURING DEVICES WORLDWIDE. WE ARE PROUD TO BE PRESENT IN MORE THAN 80 MARKETS THROUGH OUR SUBSIDIARIES & DISTRIBUTORS, AND TO HAVE OUR INSTRUMENTS USED WITH SATISFACTION IN MANY INDUSTRIES...



**Oil & Gas**



**Water & Wastewater**



**Chemical & Pharmaceutical**



**Food & Beverage**



**Agriculture**



**Energy Production**



**Construction Materials**



**Packaging Industry**



**Heavy Industry**



**Marine & Shipping**



**EXPLORE OUR CASE STUDIES  
SHOWCASING SOLUTIONS  
WORLDWIDE.**

# LEVEL TRANSMITTERS

## NON-CONTACT MICROWAVE

NEW	COMPACT	INTEGRATED
<ul style="list-style-type: none"> <li>▪ Plastic, aluminum, or stainless steel housings</li> <li>▪ Antenna versions in stainless steel, PP, PVDF, and PTFE</li> <li>▪ Compact design with IP66/IP67 protection</li> <li>▪ Plug-in graphic display (optional)</li> <li>▪ NIIFLANGE weldable stainless steel flanges</li> <li>▪ High-temperature version</li> </ul>	<ul style="list-style-type: none"> <li>▪ 2-wire 80 GHz (W-band) radar</li> <li>▪ Accuracy of <math>\pm 2</math> mm</li> <li>▪ Easy installation due to small antenna diameter</li> <li>▪ User-friendly threshold management</li> <li>▪ Configuration via Bluetooth® with MobileEView app</li> <li>▪ PACTware™ compatible</li> <li>▪ Explosion proof variants</li> </ul>	<ul style="list-style-type: none"> <li>▪ Plastic housing</li> <li>▪ Antenna versions in PP, PVDF, and PTFE</li> <li>▪ Submersible – integrated design with IP66/IP68 protection</li> <li>▪ Marine application</li> </ul>

- 2-wire 80 GHz (W-band) radar
- Accuracy of  $\pm 2$  mm
- Easy installation due to small antenna diameter
- User-friendly threshold management
- Configuration via Bluetooth® with MobileEView app
- PACTware™ compatible
- Explosion proof variants

- For measuring the level of liquids, emulsions, and other media up to 30 m
- For free flowing solids
- Storage tanks, chemical tanks, open pits, sumps, wells
- Measurement capability through plastic tanks
- For material prone to vapor formation
- For measuring liquids with a gas blanket
- Can also be used in a vacuum
- Open channel flow measurement

5 YEARS WARRANTY



Measured Values	Distance; Calculated values: Level, Volume, Mass, Flow						
Measuring Range	up to 30 m						
Supply Voltage	12...36 V DC						
Ambient Temperature	Standard version: -40...+70 °C; with display: -20...+70 °C; High-temperature version*: -40...+60 °C; with display -20...+60 °C						
Process Temperature	Plastic	Standard version: -40...+80 °C	High-temperature version <sup>(1)</sup> : -40...+200 °C	PVDF housing: -40...+80 °C; PP housing: -30...+80 °C			
	Aluminum						
	Stainless steel						
Process Pressure	PP, PVDF, PTFE antennas: -1...3 bar; Stainless steel antennas: -1...40 bar						
Output/Communication	Bluetooth® LE 5.1 (optional), 4...20 mA + HART®, optional SPDT output, service interface						
Process Connection	1", 1½" BSP / NPT, TriClamp, prepared for welded flange						
Ingress Protection	IP66 / IP67						
Certificates	ATEX, IECEx <sup>(2)</sup> , ANATEL, INMETRO						

<sup>(1)</sup> High-temperature version with metal housing and stainless steel antenna only.

<sup>(2)</sup> In preparation.



PiloTREK WE-200

PiloTREK WP-200

# LEVEL TRANSMITTERS

NEW

## GUIDED MICROWAVE

- 2-wire compact transmitter
- $\pm 5$  mm accuracy
- High pressure, high-temperature range
- Wide range of probes; rod, cable, or coaxial probe versions
- Extremely small deadband
- Plug-in graphic display module
- Explosion-proof variants
- Plastic, aluminum or stainless steel housing
- Up to 30 m measuring range
- Tracking speed: 2000 m/h (555 mm/s)
- Advanced threshold management
- False echo exclusion
- Interface measurement
- Output Conversion Table (OCT, VMT) with up to 100 point pairs for accurate output linearization
- PACTware™ compatible
- Dual current output for interface measurement (optional)
- Level, distance, volume or interface 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

## CAPACITIVE

- 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" BSP / NPT, TriClamp, flanges or sanitary

1", 1½" BSP / NPT

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

### 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

12...30 V DC

-40...+70 °C

-

-25...+125 °C

-40...+80 °C

up to 400 bar

-

4...20 mA, HART®, 0...10 V

1/2", 1", 1 1/2" BSP, TriClamp, flanges

-

IP65

IP68

ATEX

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

### INTEGRATED

- Low cost version
- 2-wire integrated transmitter
- 1 mm resolution
- Distance and level measurement
- Normal and mini rigid guide tube versions
- Stainless steel, titanium or plastic floats
- IP65 protection
- HART® communication
- Chemicals, solvents, hydrocarbons
- Level monitoring of tanks
- Interface measurement
- Level measurement of liquids, with min. 0.4 kg/dm³ density

### COMPACT

- 2-wire compact transmitter
- 0.1 mm or 1 mm resolution
- Stainless steel, titanium or plastic floats
- Plug-in graphic display module
- 99-point linearization
- Distance, level and volume measurement
- PACTware™ compatible
- Explosion-proof variants
- Level measurement of normal and flammable liquids, with minimum 0.4 kg/dm³ density
- Interface measurement
- Chemicals, solvents, hydrocarbons
- Custody transfer measurement (OIML R 85)
- Oil industry ATG (Automatic Tanking Gauge)

### BYPASS LEVEL INDICATOR

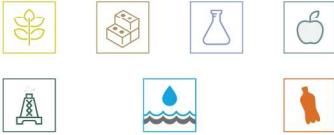
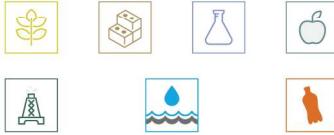
- Operation without power supply
- Clearly visible display
- Stainless steel bypass chamber
- Error indication
- Optional MAK-100 / MAK-200 strap-on level switches
- Optional magnetostrictive level transmitter
- Accuracy: ±10 mm
- Titanium float
- High-temperature version
- Explosion-proof version
- Aluminum or stainless steel indicator housing
- Bypass measuring chamber version without indicator
- Level measurement of pressurized vessels, boilers and tanks

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 / NPT	DIN, ANSI flanges
Ingress Protection	IP65	IP65
Certificates	-	ATEX, IEC Ex, OIML R 85
Other	Measuring Range: 0.3...3.5 m	<p>Measuring Range: 0.3...15 m</p>  <p>OIML</p>
		<p>Medium Density: min. 0.75 kg/dm³</p> <p>Flange Distance (CL to CL): 500...5500 mm</p> 
NIVOTRACK		NIVOFLIP

# 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>32-point linearization (99-point for SP-500 Pro)</li> <li>Narrow, 5° beam angle</li> <li>Excellent signal processing</li> <li>Temperature compensation</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	CONDUCTIVE	MAGNETIC COUPLING
<ul style="list-style-type: none"> <li>Operation without power supply</li> <li>Low cost polypropylene level switch</li> <li>Airtight, dual-walled chamber</li> <li>Mercury-free microswitch</li> <li>PVC or neoprene cable</li> <li>Adjustable switch differential</li> <li>Variants for potable water</li> </ul> <ul style="list-style-type: none"> <li>For low density liquids</li> <li>Suitable also for tanks and basins</li> <li>Industrial and communal sewage</li> <li>Suitable for drinking water</li> <li>Fail-safe indication and pump control</li> <li>Overfill protection</li> </ul>	<ul style="list-style-type: none"> <li>Reasonable price</li> <li>Limit switch or differential switch versions</li> <li>Hysteresis mode</li> <li>Adjustable sensitivity and delay</li> <li>High or low fail-safe mode</li> <li>All wetted parts stainless steel</li> <li>Compact unit with two independent relays</li> <li>Separate probe and relay unit</li> <li>Rod probes up to 3 m</li> </ul> <ul style="list-style-type: none"> <li>Conductive liquids with minimum 10 <math>\mu\text{S}/\text{cm}</math> conductivity</li> <li>Fail-safe indication and pump control</li> </ul>	<ul style="list-style-type: none"> <li>Operation without power supply</li> <li>Microswitch separated from the process</li> <li>All wetted parts stainless steel</li> <li>Side or top mounting</li> <li>Fixed or adjustable switch differential</li> <li>Submersible versions</li> <li>Various process connections</li> <li>Operational check via optional tester</li> <li>Flame-proof variants</li> <li>NIFLANGE weldable stainless steel flange variants</li> <li>SIL 1</li> <li>Painted aluminum or stainless steel housing</li> </ul> <ul style="list-style-type: none"> <li>Liquids with min. 0.7 <math>\text{kg}/\text{dm}^3</math> density</li> <li>Fail-safe and control level switches in closed tanks</li> <li>Ballast tanks of ships</li> </ul>
3 YEARS WARRANTY	5 YEARS WARRANTY	
		
Supply Voltage	–	24...240 V AC/DC
Ambient Temperature	–	–20...+50 °C
Process Temperature	0...+50 °C	up to +200 °C
Process Pressure	NL-100: up to 1 bar, NW-100: up to 2 bar	up to 16 bar
Switch Rating	250 V AC, 10(3)A	250 V AC, 16 A / 8 A
Process Connection	–	¾", 1½" BSP
Ingress Protection	IP68	IP20, IP67
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", 2" BSP / NPT, TriClamp or flanges	1" BSP / NPT, 1½", 2" TriClamp, flanges or sanitary	1" BSP/NPT, 1½", 2" TriClamp or flanges
IP67, IP68	IP67, IP68, IP65	
ATEX, BV (Marine)	ATEX, IEC Ex, UKCA Ex, DNV (Marine)	ATEX
 	 	 
NIVOPOINT	NIVOSWITCH	

## LEVEL SWITCHES

### VIBRATING ROD

- No moving parts
- Self-cleaning for most mediums
- Stainless steel vibrating section
- Pipe (0.3...3 m) or flexible cable extension (1...20 m)
- Plastic or aluminum housing
- Selectable density
- High or low fail-safe mode
- Selectable switching delay
- Dust-Ex variants
- Granules and powders with min. 0.05 kg/dm<sup>3</sup> bulk density
- For grain, flour, plastic granules, cement, fly ash, etc.

5 YEARS WARRANTY

### ROTARY PADDLE

- Plastic or aluminum housing
- Long service time
- Motor shut-off feature
- Flexible coupling
- Wide range of paddles
- Solid pipe or flexible cable extension (0.3...3 m)
- Sealed bearings
- Status indicator LED
- High-temperature version
- Dust-Ex variants
- Rotary force independent of the supply voltage
- Low supply voltage is indicated by a blinking LED
- Granules and powders with minimum 0.1 kg/dm<sup>3</sup> density
- High or low fail-safe
- Feed, coal, sand, rocks, limestone, metals, rubber, etc.

3 YEARS WARRANTY

### RF-CAPACITANCE

- Intelligent electronic level switch
- Build-up immunity
- Easy calibration
- Selectable sensitivity
- Fail-safe operation mode
- Solid pipe (0.7...3 m) or flexible cable extension (1...10 m)
- High-temperature version
- Dust-Ex variants
- For solids with  $\epsilon_r \geq 1.5$  and liquids
- For high viscosity, sticky materials
- Designed for special applications such as hopper plugging and hot ash

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" BSP / NPT

1¼ NPT; 1", 1½" universal;  
mounting plate

¾", 1", 1½" BSP / NPT, 1¼" NPT

Ingress Protection

IP67

Certificates

ATEX, IEC Ex, UKCA Ex, KCs Ex

ATEX, UKCA Ex

ATEX, IEC Ex



NIVOCONT R



NIVOROTA



NIVOCAP CK

## 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> </ul> <p>▪ Continuous pH or redox potential (ORP) measurement of highly alkaline mediums, suspensions, contaminated fluids, emulsions</p>	<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> </ul> <p>▪ Continuous dissolved oxygen measurement of surface waters, aeration processes, swimming pool equipments</p>	<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> </ul> <p>▪ Continuous conductivity measurement of swimming pool technology and drinking water equipment</p> <p>▪ Water purification</p>

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	up to 16 bar
Output	4...20 mA, HART®, relay		4...20 mA, HART®
Process Connection	1½" BSP / NPT		¾", 1" BSP / NPT; 1½", 2" TriClamp
Ingress Protection	IP67, IP68	Probe: IP68, Housing: IP67	Probe: IP68, Connector: IP65
Certificates	ATEX		-
Measuring Range	pH: 1...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 Pt100 temperature sensor</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>▪ NIFLANGE 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		
Ambient Temperature	-40...+70 °C		
Process Temperature	-		
Process Pressure	max. 25 bar		
Output	4...20 mA, HART®		
Process Connection	1/2", 3/4", 1" BSP, 1/2" NPT, M20x1.5, TriClamp, flanges or sanitary	1"; 1½" BSP / NPT; M20x1.5	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
			
THERMOCONT TT		THERMOPOINT	

# 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>▪ 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 device from the process</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 - max. 1 bar - M20x1.5; M8x1, integrated cable version up to 12 m IP65, IP54 - Measuring Range: -50...+200 °C Sensor Type: Pt100 	 - -20...+80 °C - up to 25 bar - M20x1.5, 1/2" BSP / NPT, 3/8" BSP or flanges IP67 ATEX Measuring Range: -50...+600 °C Sensor Type: Pt100 	 - -30...+80 °C - up to 80 bar - 1" NPT or flanges IP65, IP67 ATEX Measuring Range: -50...+600 °C Sensor Type: Pt100, or J, K thermocouple 
<b>THERMOCONT TG / TF</b>	<b>THERMOCONT TSP</b>	<b>THERMOCONT TN / TX</b>



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## INDUSTRIAL SENSORS

## FLOW MEASUREMENT

### ULTRASONIC PROXIMITY SENSOR

- 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

### OPEN-CHANNEL

- 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: PiloTREK, EasyTREK, EchoTREK



DISCONTINUING PRODUCT

MICROSONAR

NIVOSONAR



# PRESSURE SENSORS

PRESSURE SWITCHES	PRESSURE TRANSMITTERS	DIFFERENTIAL PRESSURE TRANSMITTERS
<ul style="list-style-type: none"> <li>▪ Relative or absolute measuring mode</li> <li>▪ Configurable 4-digit swivel display module</li> <li>▪ Configurable via PC or programming device</li> <li>▪ Stainless steel housing versions</li> <li>▪ Ex ia variants<sup>(1)</sup></li> <li>▪ Integrated cable version</li> <li>▪ Gases, steam, liquids, viscous, pasty or highly contaminated media</li> <li>▪ Pneumatic, hydraulic and mechanical engineering applications</li> <li>▪ Plant and machine engineering, HVAC, environmental engineering</li> <li>▪ For rough and harsh conditions</li> <li>▪ Hygienical versions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Relative or absolute measuring mode</li> <li>▪ For high pressures (up to 2200 bar)</li> <li>▪ For vacuum, overpressure and absolute pressure measurement</li> <li>▪ Measurement range turndown</li> <li>▪ Two-chamber cast aluminum or stainless steel housing</li> <li>▪ Optional plug-in graphic display</li> <li>▪ Ex ia or Ex d variants<sup>(1)</sup></li> <li>▪ SIL 2 version<sup>(1)</sup></li> <li>▪ Water, waste water, fuel and oil, aggressive media, gases</li> <li>▪ Plant and machine engineering, hydraulics, HVAC</li> <li>▪ Environmental engineering, medical technology, laboratory techniques</li> <li>▪ For potable water</li> </ul>	<ul style="list-style-type: none"> <li>▪ Relative measuring mode</li> <li>▪ Measurement range turndown</li> <li>▪ Up to 2 contacts</li> <li>▪ Cast aluminum housing</li> <li>▪ Static overpressure 400 bar</li> <li>▪ High accuracy</li> <li>▪ Mechanical robust versions</li> <li>▪ Hastelloy® sensor version</li> <li>▪ Optional plug-in graphic display</li> <li>▪ Ex ia variants<sup>(1)</sup></li> <li>▪ Measurement of pressure difference of gases, compressed air and liquids in closed, pressurized tanks</li> <li>▪ Plant and machine engineering, HVAC</li> <li>▪ Compact design versions for integration in applications with limited space</li> </ul>

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" BSP; 1/4", 1/2" NPT, M20x1.5, TriClamp, flanges or sanitary	1/4", 1/2", 3/4", 1", 1 1/2" BSP; 1/4", 1/2", 1" NPT, M20x1.5, TriClamp, flanges or sanitary	Ø6.6 x 11 (for flex. tubes Ø6), Ø4.45 x 10 (for flex. tubes Ø4), 1/4", 1/2" BSP / NPT, M20x1.5 or flanges
Ingress Protection	IP54, IP65, IP67	IP65, IP67, IP68	IP54, IP65, IP67

<sup>(1)</sup>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

- Provides a flexible solution to commissioning process control systems containing HART®-based intelligent (level, temperature or pressure) transmitters
- Easy-to-read backlit LCD/OLED display
- Data logger 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

5 YEARS WARRANTY

NEW

### SMART FIELD DISPLAY & DATA LOGGER

- 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
- Ex variant
- Data logging to internal memory
- Remote programming, displaying of transmitter's data
- Process controller for 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

### UNIVERSAL CONTROLLER / INDICATOR

- 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

3 YEARS WARRANTY



#### Supply Voltage

11.4...40 V DC; 11.4...28 V AC;  
85...255 V AC

2-wire: 4...20 mA loop powered  
4-wire: 8...30 V DC, max. 250 mW

100...240 V AC; 20...48 V AC,  
22...65 V DC

#### Ambient Temperature

-20...+50 °C

-20...+70 °C

-10...+55 °C

#### Input

1...15 HART® devices

1 device

universal

#### Output

Internal: max. 2x 4...20 mA,  
max. 5x relays (SPDT)  
External: max. 16x 4...20 mA via RS485,  
max. 64x relays (SPDT)

4...20 mA,  
Solid State Relay (SSR), RS485,  
Data logger (32 MB)

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

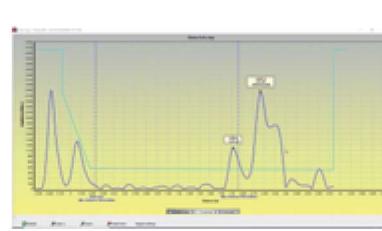


**MultiCONT**

**MonoCONT**

**UNICONT PM**

# SOFTWARE

PROCESS VISUALIZATION	HART® CONFIGURATION SOFTWARE	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> </ul> <p>▪ Custom-tailored software for industrial process visualization</p> <p>▪ Online monitoring of measured values</p> <p>▪ Tank-farm visualization</p> <p>▪ Alarm systems</p> <p>▪ Inventory management</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> </ul> <p>▪ For easy setup and configuration</p> <p>▪ Remote programming</p> <p>▪ Displaying measurement data</p> <p>▪ Error detection</p> <p>▪ Limited trend monitoring</p>	<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> </ul> <p>▪ Commissioning wizard</p> <p>▪ Maintenance wizard</p> <p>▪ Testing / Verification</p> <p>▪ Settings / Customization</p>
<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>Download demo:</p>  	<p>Free download:</p>  	<p>Free download:</p>   

## SYSTEM COMPONENTS

UNIVERSAL INTERFACE MODULE	CURRENT CONTROLLED SWITCH MODULE	LOOP DISPLAYS
<ul style="list-style-type: none"> <li>Universal expander module for MultiCONT</li> <li>RS485 communication</li> <li>Output variations: <ul style="list-style-type: none"> <li>2x 4...20 mA current outputs</li> <li>2x Programmable relay outputs (250 V AC, 8 A)</li> <li>For mixed systems: 1x current output and 1x relay</li> </ul> </li> <li>DIN-rail-mountable</li> <li>Level controlling and limit level indication</li> </ul> <ul style="list-style-type: none"> <li>Expanding a process control system with 2 relays or 2 current outputs</li> <li>For mixed systems: with 1 relay and 1 current output version</li> <li>Provides galvanic isolation</li> </ul>	<ul style="list-style-type: none"> <li>Suitable interface for devices having 4...20 mA or on-off outputs</li> <li>Can power 2-wire transmitters</li> <li>Galvanic isolation</li> <li>4...20 mA input</li> <li>Power relay (SPDT) output</li> <li>Limit, differential or window switch capabilities</li> <li>Programmable damping</li> <li>Explosion-proof variants</li> </ul> <ul style="list-style-type: none"> <li>Power supply and switching amplifier for 2-wire transmitters</li> <li>Switching amplifier for 4-wire active transmitters</li> <li>Dedicated switching amplifier version for the RC-400 range of Ex rated vibrating forks</li> <li>Wire state monitoring</li> <li>ON-OFF control</li> </ul>	<ul style="list-style-type: none"> <li>Loop-operated</li> <li>Operation without external power supply in 2-wire type</li> <li>Field display for transmitters</li> <li>Scalable display</li> <li>20 mm digit height</li> <li>4...20 mA to HART® converter version</li> <li>Heavy duty field mountable housing</li> <li>Aluminum, stainless steel or plastic housing</li> <li>Flameproof variants</li> </ul> <ul style="list-style-type: none"> <li>Universal field display for any transmitters</li> <li>Selectable physical parameter set</li> <li>Display of process values supplied by any transmitter</li> <li>If used as HART® converter, powers 2-wire transmitters</li> </ul>

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	<ul style="list-style-type: none"> <li>2x relay 250 V AC, 8 A, AC1</li> <li>2x current outputs (4...20 mA)</li> <li>1x relay + 1 current output</li> </ul>	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		
Certificates	ATEX, UKCA Ex		



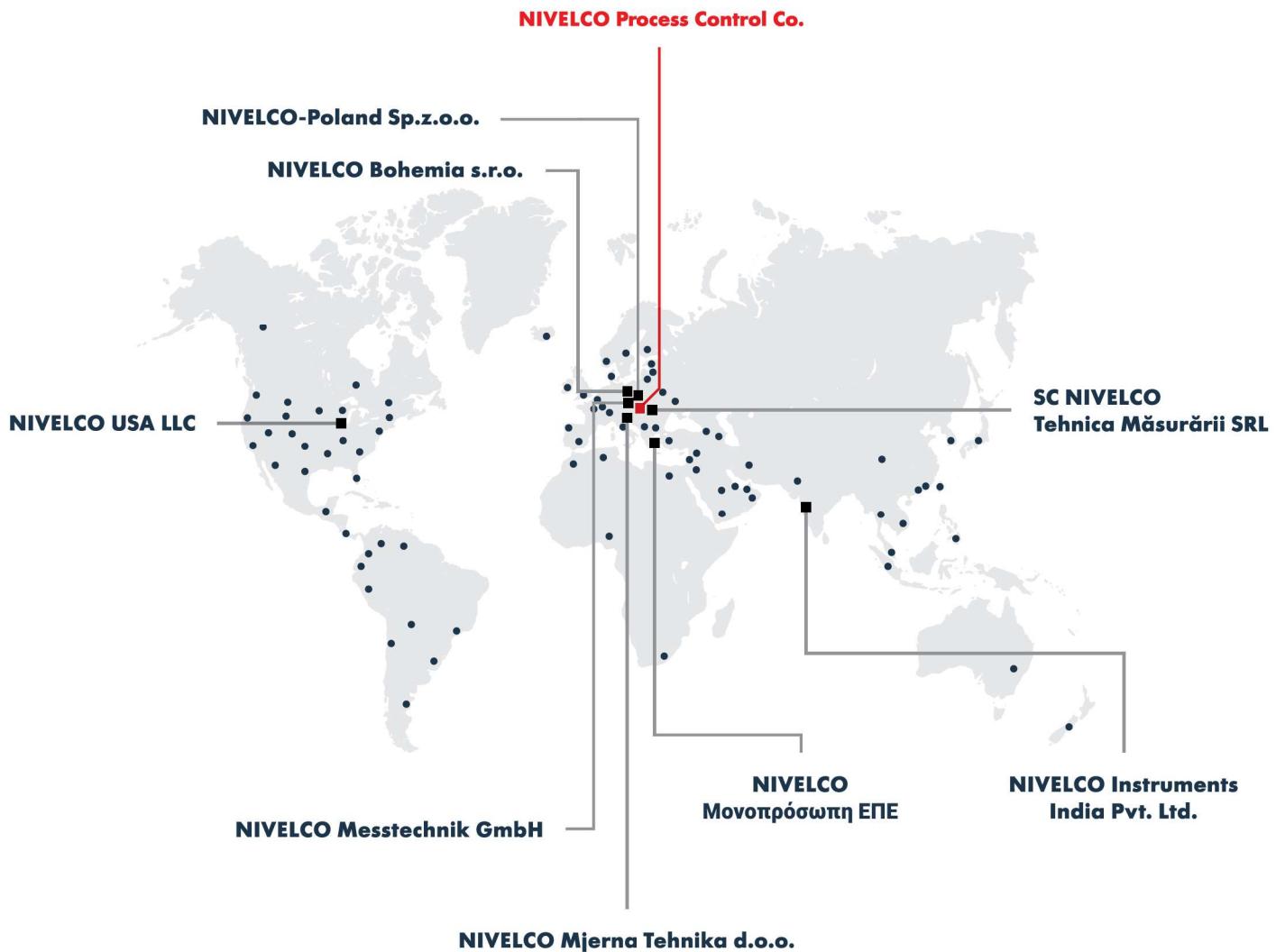
UNICONT PJK

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 devices</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 between transmitters and computer</li> <li>▪ No external power supply required for USB connection</li> <li>▪ Transmission of measurement data to a computer</li> <li>▪ For integration into a measurement system</li> <li>▪ On-site configuration, parameter setting</li> <li>▪ Galvanic isolation</li> <li>▪ SAT-504: <ul style="list-style-type: none"> <li>- Bluetooth® compatibility</li> <li>- Portable design with test clip connector</li> <li>- Firmware update for transmitters</li> <li>- 24 V current loop supply voltage</li> <li>- Power supply from power bank</li> <li>- Switchable HART® resistor</li> </ul> </li> <li>▪ SAT-506: <ul style="list-style-type: none"> <li>- USB connection</li> <li>- Can be plugged into the display port</li> <li>- Firmware update for transmitters</li> <li>- Data logger readout</li> </ul> </li> <li>▪ SAK-305: <ul style="list-style-type: none"> <li>- USB or RS485 connection</li> <li>- Intrinsically safe design</li> </ul> </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 / power bank
Output voltage: 24 V DC Ambient temperature: -20...+60 °C Input / Output: 4...20 mA + HART® Accuracy: 1 µA, 8 µA Response time: 5 ms, 100 ms	Consumption: max. 60 VA / 33 W Output Voltage: 12 V DC (11...13 V DC adjustable), 24 V DC (23...25 V DC adjustable) Operating temperature: -20...+50 °C Electrical connection: Terminal, wire cross section: max. 2.5 mm²	Time ranges: 0.1 s...100 days Output: relay, 250 V, 16 A, AC1	Input: HART® (KLEPS2 or screw terminal) Output: USB / RS485 / Bluetooth® (BLE, 5.x)
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 (SAK-305), portable version (SAT-504), or can be plugged into the display port (SAT-506)
IP20			IP20
ATEX, IEC Ex			ATEX (SAK-305)
			
UNICONT PGK	NIPOWER	NITIME	UNICOMM



leveg25en044b // \*5-year warranty on most NIVELCO products. Information is accurate to the best of NIVELCO's knowledge. We reserve the right to change specifications at any time.



### NIVELCO PROCESS CONTROL CO.

HU-1043 Budapest, Dugonics u. 11.

Tel.: +36-1-8890-100

E-mail: [sales@nivelco.com](mailto:sales@nivelco.com)

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Industrial automation  
for a smarter future.

