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
▪ Plastic, aluminum, or stainless steel housings ▪ Antenna versions in stainless steel, PP, PVDF, and PTFE ▪ Compact design with IP66/IP67 protection ▪ Plug-in graphic display (optional) ▪ NIFLANGE weldable stainless steel flanges ▪ High-temperature version	▪ Plastic housing ▪ Antenna versions in PP, PVDF, and PTFE ▪ Submersible – integrated design with IP66/IP68 protection ▪ Marine application

▪ 2-wire 80 GHz *(W-band)* radar
▪ Accuracy of ±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	Housing	Plastic	Standard version: –40…+80 °C	High-temperature version[1]: –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				–1…3 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				1", 1½" BSP / NPT
Ingress Protection	IP66 / IP67				IP66 / IP68
Certificates	ATEX, IECEx[2], ANATEL, INMETRO				

[1] *High-temperature version with metal housing and stainless steel antenna only.*

[2] *In preparation.*

PiloTREK WE–200

PiloTREK WP–200

LEVEL TRANSMITTERS

NEW

GUIDED MICROWAVE

- 2-wire compact transmitter
- ±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 ε_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 ε_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

	MicroTREK	NIVOCAP
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

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: ±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

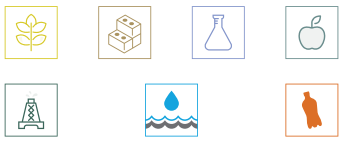
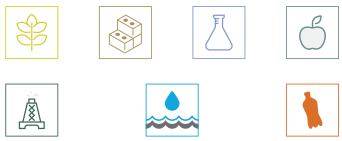
10…36 V DC	12…30 V DC
–40…+70 °C	–
–25…+125 °C	–40…+80 °C
up to 400 bar	–
–	4…20 mA, HART®, 0…10 V
½", 1", 1½" BSP, TriClamp, flanges	–
IP65	IP68
ATEX	ATEX, UKCA Ex, BV *(Marine)*
	up to 350 m

NIVOPRESS D | **NIVOPRESS N**

LEVEL TRANSMITTERS

	MAGNETOSTRICTIVE		BYPASS LEVEL INDICATOR
	INTEGRATED	COMPACT	
	▪ 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	▪ 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	▪ 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
	▪ Chemicals, solvents, hydrocarbons ▪ Level monitoring of tanks ▪ Interface measurement ▪ Level measurement of liquids, with min. 0.4 kg/dm³ density	▪ 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)*	▪ 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	1", 2" BSP / NPT, TriClamp 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: 0.3…15 m	Medium Density: min. 0.75 kg/dm³ Flange Distance (CL to CL): 500…5500 mm
		OIML	
	NIVOTRACK		**NIVOFLIP**

LEVEL TRANSMITTERS

ULTRASONIC INTEGRATED		ULTRASONIC COMPACT	
FOR LIQUIDS	FOR SOLIDS	FOR LIQUIDS	FOR SOLIDS
▪ Non-contact level metering ▪ Narrow, 5° beam angle ▪ Excellent signal processing ▪ Temperature compensation ▪ 32-point linearization (99-point for SP–500 Pro) ▪ Explosion-proof variants ▪ Fail-safe indication			
▪ 2-wire transmitter ▪ PP, PVDF, PTFE housing and transducers ▪ Advanced threshold management ▪ Quick start mode ▪ Faster measurement cycle ▪ Service Interface ▪ PACTware™ compatible (SP–500 Pro) ▪ Measurement of level and volume ▪ Open-channel flow metering ▪ For challenging applications such as vapor, fume, mixing blades, and light foam ▪ Level measurement of liquids, wastewater, aggressive chemicals and slurries	▪ 4-wire transmitter ▪ PP and aluminum housing transducers with PVC foam ▪ Joystick aiming device ▪ Level measurement of free flowing solids ▪ Level and volume measurement ▪ For challenging applications such as long distance measurement and light dust during filling	▪ 2- or 4-wire transmitter ▪ PP, PVDF, PTFE housing and transducers ▪ Plug-in display module ▪ Plastic, aluminum or stainless steel housing ▪ Advanced threshold management ▪ Quick start mode ▪ Faster measurement cycle ▪ PACTware™ compatible ▪ Measurement and display of level and volume ▪ Open channel flow measurement ▪ For challenging applications such as vapor, fume, mixing blades, and light foam	▪ 4-wire transmitter ▪ PP and aluminum housing transducers with PVC foam ▪ Joystick aiming device ▪ Plug-in display module ▪ Powder-coated aluminum housing ▪ PACTware™ compatible ▪ Measurement and display of level and volume ▪ For challenging applications such as long distance measurement and light dust during filling
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
▪ 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	▪ 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 µS/cm conductivity ▪ Fail-safe indication and pump control	▪ 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 kg/dm^3 density ▪ Fail-safe and control level switches in closed tanks ▪ Ballast tanks of ships
3 YEARS WARRANTY	5 YEARS WARRANTY	

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	–	⅜", 1½" BSP	flanges, 2" BSP / NPT
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
▪ Operation without power supply ▪ Reed switch output ▪ Wetted parts stainless steel or plastic ▪ Up to 5 switching points ▪ Vertical adjustability of all switching points ▪ Various process connections ▪ Flame-proof variants ▪ Liquids with minimum 0.4 kg/dm^3 density ▪ Multi-point level switch in closed tanks ▪ Foaming liquids, chemicals with dense vapor or gas layer above the surface	▪ No moving parts ▪ Stainless steel and plastic-coated probes ▪ Pipe extension up to 3 m ▪ Various output configurations ▪ High or low fail-safe mode ▪ Plastic, aluminum or stainless steel housing ▪ Explosion-proof variants ▪ For corrosive, thick, turbulent, flowing liquids ▪ NIFLANGE weldable stainless steel flange variants ▪ Process pressure: up to 40 bar ▪ Most liquids with minimum 0.7 kg/dm^3 density and maximum 10^4 mm^2/s viscosity	▪ No moving parts ▪ Stainless steel probes ▪ Pipe extension up to 3 m ▪ Various output configurations ▪ Selectable density ▪ High or low fail-safe mode ▪ Plastic, aluminum or stainless steel housing ▪ NIFLANGE weldable stainless steel flange variants ▪ Dust-Ex variants ▪ Granules and powders with minimum 0.01 kg/dm^3 bulk density
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	ROTARY PADDLE	RF–CAPACITANCE
▪ 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^3 bulk density ▪ For grain, flour, plastic granules, cement, fly ash, etc.	▪ 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^3 density ▪ High or low fail-safe ▪ Feed, coal, sand, rocks, limestone, metals, rubber, etc.	▪ 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 $\varepsilon_r \geq 1.5$ and liquids ▪ For high viscosity, sticky materials ▪ Designed for special applications such as hopper plugging and hot ash
5 YEARS WARRANTY	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" 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
▪ 2-wire compact and integrated transmitter ▪ Plug-in graphic display module ▪ Temperature compensation ▪ Separated version up to 10 m ▪ Glass, polycarbonate probes ▪ Wide probe selection to suit a host of applications ▪ Wide selection of accessories ▪ Power relay output, programmable ▪ Explosion-proof variants ▪ Continuous pH or redox potential *(ORP)* measurement of highly alkaline mediums, suspensions, contaminated fluids, emulsions	▪ 2-wire compact transmitter ▪ Wide probe selection to suit a host of applications ▪ Plug-in graphic display module ▪ Temperature compensated ▪ Separated version up to 10 m ▪ Power relay output, programmable ▪ Wide selection of accessories ▪ Explosion-proof variants ▪ Continuous dissolved oxygen measurement of surface waters, aeration processes, swimming pool equipments	▪ 2-wire mini compact transmitter ▪ Wide range of measurement ▪ Plug-in display ▪ Wide probe selection to suit a host of applications ▪ Wide selection of accessories ▪ PACTware™ compatible ▪ Continuous conductivity measurement of swimming pool technology and drinking water equipment ▪ Water purification
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
	▪ 2-wire compact transmitter ▪ Plug-in graphic display ▪ Integral Pt100 temperature sensor ▪ Stainless steel or PFA-coated probes ▪ Probe length up to 3 m ▪ Aluminum or plastic housing ▪ 4…20 mA, HART® communication ▪ Fully programmable ▪ Heavy duty field mountable housing ▪ Explosion-proof variants ▪ NIFLANGE weldable stainless steel flange variants ▪ Transmission to long distances ▪ Versions for tanks, vessels, pipelines ▪ Temperature measurement and local indication of normal and hazardous liquids and gases	▪ 2-wire multi-point temperature transmitter ▪ Digitally addressed sensors ▪ Up to 15 sensors ▪ Average, max, min temperature measurement ▪ Plug-in graphic display ▪ Rigid or flexible probes ▪ System capability ▪ Replaceable sensors ▪ PACTware™ compatible ▪ Intrinsically safe variants ▪ Continuous multi-point temperature measurement, display, transmission and trending of normal and hazardous liquids	▪ 2-wire multi-point temperature transmitter ▪ Digitally addressed sensors ▪ Up to 15 sensors ▪ Average, max, min temperature measurement ▪ Plug-in graphic display ▪ Flexible plastic-coated probe version ▪ Rigid or flexible probes ▪ System capability ▪ Replaceable sensors ▪ PACTware™ compatible ▪ Intrinsically safe and Dust-Ex variants ▪ Continuous multi-point temperature measurement, display, transmission and trending of powdered and granular solids in storage silos, grain mills, animal feeds
	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	½", ¾", 1" BSP, ½" NPT, M20×1.5, TriClamp, flanges or sanitary	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
	THERMOCONT TT	THERMOPOINT	

TEMPERATURE MEASUREMENT

TEMPERATURE SENSOR	ENCAPSULATED TEMPERATURE SENSOR	STRENGTHENED PROBE TEMPERATURE SENSOR
▪ Single or dual Pt100 sensor versions ▪ 2, 3 or 4 wire types ▪ Fast response sensor version ▪ Stainless steel protection tube ▪ Up to 500 mm insertion length ▪ Temperature metering in bearing, baking tray ▪ Mounting bolts allow the sensors to be screwed into various threads ▪ For temperature control of heated tools ▪ Bearing temperature sensing for motors, pumps	▪ Single or dual Pt100 sensor versions ▪ 2 or 4-wire types ▪ Double sensor protection tube ▪ Fast response sensor version ▪ Plastic-coated or stainless steel protection tub ▪ Up to 3 m insertion length ▪ Explosion-proof variants ▪ Can be mounted to special technological places, tanks, tubes, furnaces or boilers ▪ Special versions for unique applications ▪ Temperature measurement of liquids, gases, vapors ▪ Coated version for temperature measurement in aggressive media	▪ Robust design for heavy chemical industry ▪ Stainless steel, drilled, tapered thermowell case ▪ Up to 800 mm insertion length ▪ Sensor can be replaced without removing the device from the process ▪ 2 or 4-wire types ▪ Plug-in graphic display ▪ Welded flange ▪ Gas thermometer version ▪ Explosion-proof variants ▪ Temperature measurement of liquids, gases, vapors ▪ Special versions for unique applications ▪ For applications exposed to mechanical damage
5 YEARS WARRANTY		
–	–	–
–30…+100 °C	–20…+80 °C	–30…+80 °C
–	–	–
max. 1 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" BSP / NPT, ⅜" BSP or flanges	1" NPT or flanges
IP65, IP54	IP67	IP65, IP67
–	ATEX	ATEX
Measuring Range: –50…+200 °C Sensor Type: Pt100	Measuring Range: –50…+600 °C Sensor Type: Pt100	Measuring Range: –50…+600 °C Sensor Type: Pt100, or J, K thermocouple
THERMOCONT TG / TF	**THERMOCONT TSP**	**THERMOCONT TN / TX**

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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 m^3/h Level transmitters: PiloTREK, EasyTREK, EchoTREK
DISCONTINUING PRODUCT	
MICROSONAR	NIVOSONAR

PRESSURE SENSORS

PRESSURE SWITCHES	PRESSURE TRANSMITTERS	DIFFERENTIAL PRESSURE TRANSMITTERS
▪ Relative or absolute measuring mode ▪ Configurable 4-digit swivel display module ▪ Configurable via PC or programming device ▪ Stainless steel housing versions ▪ Ex ia variants[1] ▪ 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	▪ 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[1] ▪ SIL 2 version[1] ▪ Water, waste water, fuel and oil, aggressive media, gases ▪ Plant and machine engineering, hydraulics, HVAC ▪ Environmental engineering, medical technology, laboratory techniques ▪ For potable water	▪ 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[1] ▪ 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	⅛", ¼", ½", ¾", 1", 1½", 2" BSP; ¼", ½" NPT, M20×1.5, TriClamp, flanges or sanitary	¼", ½", ¾", 1", 1½" BSP; ¼", ½", 1" NPT, M20×1.5, TriClamp, flanges or sanitary	Ø6.6 × 11 (for flex. tubes Ø6), Ø4.45 × 10 (for flex. tubes Ø4), ¼", ½" BSP / NPT, M20×1.5 or flanges
Ingress Protection	IP54, IP65, IP67	IP65, IP67, IP68	IP54, IP65, IP67

[1] *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 DISPLAY & DATA LOGGER	UNIVERSAL CONTROLLER / INDICATOR
▪ 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	▪ 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	▪ 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

	MultiCONT	MonoCONT	UNICONT PM
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. 2× 4…20 mA, max. 5× relays (SPDT) External: max. 16× 4…20 mA via RS485, max. 64× 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

SOFTWARE

PROCESS VISUALIZATION

- Communication with intelligent transmitters or switches and controllers
- Tank configuration
- Transmitter configuration
- Client-server (1+15) or web browser based
- Multiple alarm setpoints per measuring device
- Real-time trend analysis
- Data logging
- Database handling
- Archiving
- "Web-Ready" symbols and animations
- Remote connection on the Internet

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

Operation System: MS Windows 10, 8, 7, Vista, XP, 2000

Input port: RS232, RS485, USB

Free disk space required: min. 5 GB

Download demo:

NIVISION

HART® CONFIGURATION SOFTWARE

- Free configuration program
- Remote programming and data retrieval for up to 15 HART®-enabled transmitters in a multidrop loop
- Handling linearization table entries
- Echo Map
- Sensor calibration
- Measurement data monitoring
- Handling multiple HART® modems

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

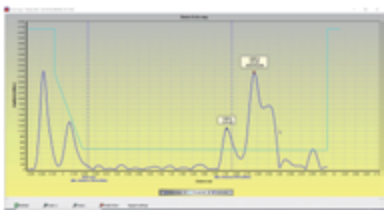
Operation System: MS Windows 10, 8, 7, Vista, XP, 2000

Free disk space required: 100 MB

Memory: 512 MB RAM

HART® modem: UNICOMM SAT–304, SAK–305, SAT–504

Free download:



EView2

CONFIGURATION APP

- Direct connection to transmitters with Bluetooth®
- Live diagram display (trend), with automatic (~3 s) update
- Echo list display with automatic update
- Manually updates echo chart display
- Current PV and SV values of transmitters display already in the device selector's initial screen
- Full product identification, unique user ID
- Log file saving

- Commissioning wizard
- Maintenance wizard
- Testing / Verification
- Settings / Customization

Operation System: Android 10+; iOS 12+

Connection: Bluetooth®, HART®

Language: EN, DE, HU, CZ, TR, RO, HR

Help: WiFi or mobile internet required

Required permissions: Bluetooth®, Location

Compatible devices: PiloTREK WP, WE–200; UNICOMM SAT–504–2

Free download:

GET IT ON Google Play

Download on the App Store

MobileEView

SYSTEM COMPONENTS

	UNIVERSAL INTERFACE MODULE	CURRENT CONTROLLED SWITCH MODULE	LOOP DISPLAYS
	▪ 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	▪ 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-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

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

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

5 YEARS WARRANTY

20…35 V DC

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

DIN rail mounted
(module width: 22.5 mm)

ATEX, IEC Ex

UNICONT PGK

SWITCHING-MODE POWER SUPPLY MODULE

- DIN rail mountable
- Stabilized 12 V / 24 V DC output
- Switching-mode power supply
- Short-circuit protection
- Overload, overvoltage, overcurrent protection

- Power supply for transmitters and sensors
- For inductive, capacitive proximity switches
- For infrared or ultrasonic proximity sensors

3 YEARS WARRANTY

100…240 V AC / 50…60 Hz

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

DIN rail mounted
(module width: 35 mm)

IP20

NIPOWER

TIME RELAY MODULE

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

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

12…240 V AC/DC

Time ranges: 0.1 s…100 days
Output: relay,
250 V, 16 A, AC1

DIN rail mounted
(module width: 17.6 mm)

NITIME

COMMUNICATION MODULE

- Communication interface between transmitters and computer
- No external power supply required for USB connection
- Transmission of measurement data to a computer
- For integration into a measurement system
- On-site configuration, parameter setting
- Galvanic isolation
- SAT–504:
  - Bluetooth® compatibility
  - Portable design with test clip connector
  - Firmware update for transmitters
  - 24 V current loop supply voltage
  - Power supply from power bank
  - Switchable HART® resistor
- SAT–506:
  - USB connection
  - Can be plugged into the display port
  - Firmware update for transmitters
  - Data logger readout
- SAK–305:
  - USB or RS485 connection
  - Intrinsically safe design

5 YEARS WARRANTY

supplied from USB / 24 V DC / power bank

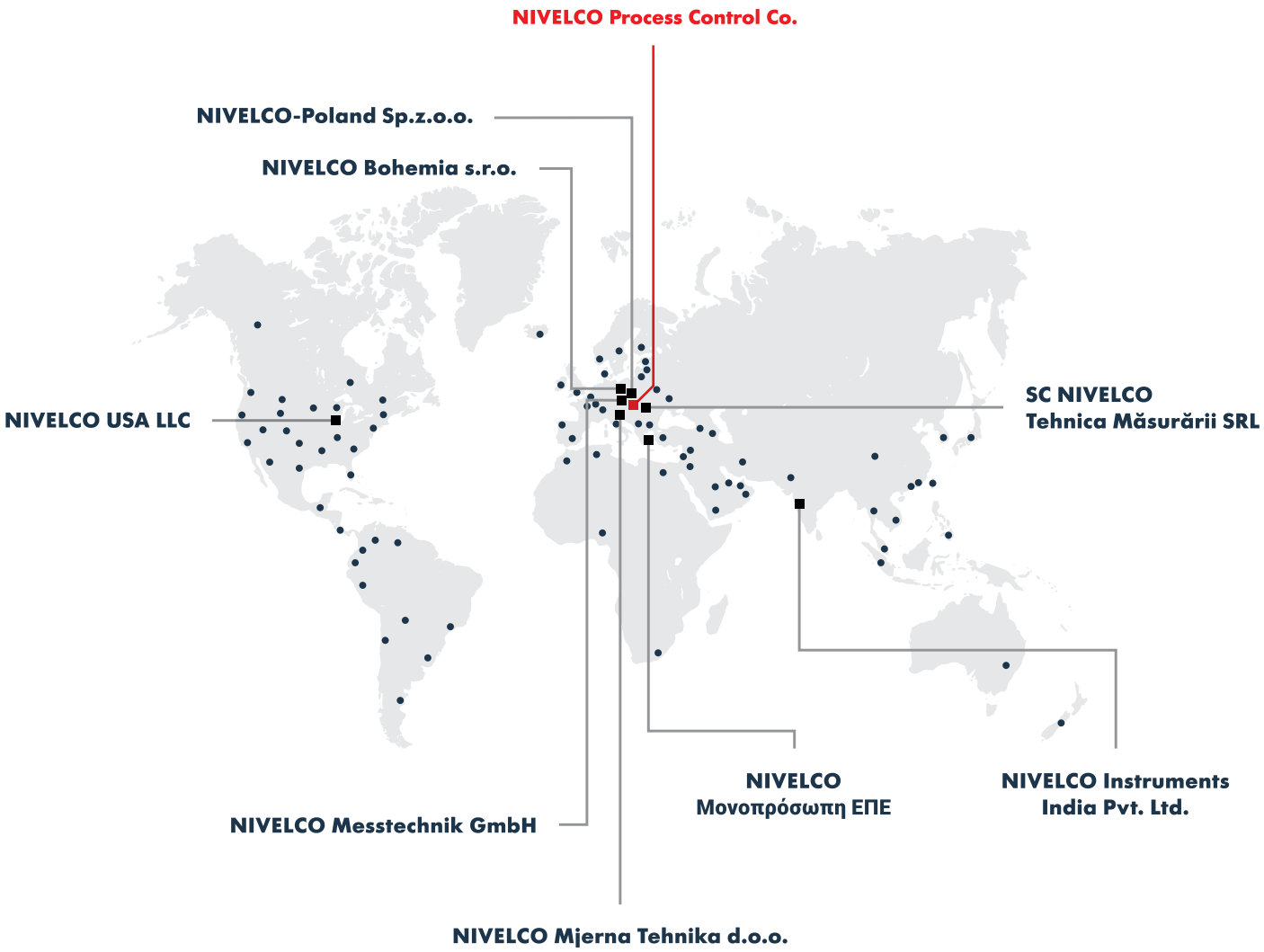
Input: HART®
(KLEPS2 or screw terminal)
Output: USB / RS485 / Bluetooth® (BLE, 5.x)

DIN rail mounted (SAK–305), portable version (SAT–504), or can be plugged into the display port (SAT–506)

IP20

ATEX (SAK–305)

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.

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#NivelcoDevices

ISO CERTIFIED 9001 & 14001

Industrial automation for a smarter future.

HUNGARIAN PARALYMPIC COMMITTEE