

MicroTREK

РЕФЛЕКСНЫЙ МИКРОВОЛНОВОЙ ПРЕОБРАЗОВАТЕЛЬ УРОВНЯ



5 YEARS WARRANTY



LEVEL TRANSMITTERS

NEW Guided Microwave Level Transmitters

MicroTREK HT-700 guided microwave level transmitter is designed for the continuous level measurement of conductive and non-conductive liquids, pulps, and solids. The measuring speed of the **MicroTREK HT-700** is almost ten times that of its predecessor, the HT-700's measuring dead zone is significantly smaller, and its maximum measuring distance is longer! Furthermore, the supply voltage range of the device has been expanded. Its level gauge operates based on measuring the travel time of impulse reflections (*TDR – Time Domain Reflectometry*). The electronic module generates microwave impulses in the sensor, which travel at the speed of light.

Part of the impulse energy is reflected from the surface depending on the material. The reflected signal's travel time is measured and processed by the module's electronics, and then it is converted to a volume- and level-proportional signal. Reflections depend heavily on the medium's dielectric constant (\mathcal{E}_r), which must be at least 1.4 for successful measurement. The propagation speed of microwave impulses in a vacuum, air, and other gases is virtually the same; distance measurement is therefore independent of the medium within the given limits.

FEATURES

- Measuring range up to 30 m
- Tracking speed: 900 m/h (= 25 cm/s)
- Accuracy: ±5 mm
- Measurement is independent of medium's dielectric constant, temperature, pressure and density
- Rod, cable, or coaxial probe
- Segmented rod probe version
- Lowest $\mathbf{\epsilon}_{r} \ge 1.4$
- Interface measurement
- Plug-in display
- Dual current output for interface measurement(optional)
- Advanced threshold management
- False echo suppression
- Probe Correction Table (SCT)
- PACTware[™] compatible
- 4...20 mA + HART[®] output + relay (optional)
- Process temperature range: -30... +200 °C
- Highest process pressure: 40 bar
- IP67
- 5 years warranty

CERTIFICATES

- ATEX (Ex ia G)
- ATEX (Ex ia D)
- ATEX (Ex ta/tb D)
- IEC Ex (Ex ia G)
- IEC Ex (Ex ia D)
- INMETRO (Ex ia G)
- INMETRO (Ex ia D)
- UKCA Ex (Ex ia G)
- UKCA Ex (Ex ia D)
- UKCA Ex (Ex ta/tb D)



APPLICATIONS

Mono cable / Mono rod Mono segmented rod	Twin cable	Twin rod	Coaxial pipe
 Cement, limestone, fly ash, alumina, soot All high-viscosity liquids Mineral powders Clean and contaminated liquids For stilling wells (calibration required) With plastic-coated probe for aggressive substances Slightly conductive foams High-temperature applications Bypass applications 	 Tank parks with solvents, oil and fuels Water storage tanks Plastic granules For products with low dielectric constant (E_r > 1.8) For all liquids, light granules For narrow tanks Where minimum dead zone is needed Mounting close to tank wall is possible 	 Plastic granules Coated tanks Clean and contaminated liquids Fine powders Where minimum dead zone is needed For narrow tanks For mediums with low dielectric constant and slightly moving products 	 Small vessels and tanks up to 6 m high Solvents, liquefied gases LPG, LNG For clean liquids with low dielectric constant Agitated or flowing liquids – the probe acts as a stilling well Liquid or vapor spray near the probe Can be heated Contact possible with metallic object or tank wall Where no dead zone allowed

TECHNICAL DATA

	Version	Plastic housing	Aluminum housing	Stainless steel housing			
Measured	values / calculated values	Distance, level; / Volume, Weight					
Measuring	g range	Depending on probe version and dielectric constant (ϵ r) of the medium					
Probe vers	ions	Mono cable, twin cable, mono	rod, twin rod, coaxial pipe, segmented o	coaxial pipe and segmented rod			
Linearity error ⁽¹⁾ Accuracy		•	mm, if probe length ≥ 10 m: ±0.05% of t) mm, if probe length ≥ 10 m: ±0.2% of t	1 0			
	Resolution		1 mm				
Lowest &, a	of medium		1.4 (depending on probe version)				
Supply vol	tage	12 ⁽³⁾ 36 V DC, nominal 2	24 V DC, Ex version: 12 ⁽³⁾ 30 V DC, trans	sient overvoltage protection			
	Communication						
Output	Display (optional)		SAP-300 graphic display unit				
	Relay (optional)	SPDT 30 V / 1 A DC; 48 V / 0.5 A AC					
		-30+90 °C; high-temperature version: -30+200 °C					
Process ter	mperature	For plastic-coated probes, coated: see "Probe Properties"					
Highest pr	ocess pressure	40 bar (4 MPa); with plastic lined flange: maximum 25 bar (2.5 MPa)					
Ambient te	emperature	-30+65 °C, with display: -20+65 °C					
Process co	nnection	Threaded, flanged or sanitary connections (as per order code)					
Ingress pro	otection		IP67				
Electrical o	connection	2× M20×1.5 cable glands + 2× internally threaded ½" NPT connection, cable outer diameter: Ø612 mm (shielded cable is recommended), wire cross section: 0.51.5 mm ²					
Electrical p	protection		Class III				
Housing material		Plastic (PBT) Painted aluminum Stainless		Stainless steel (KO35)			
Seal		FF	PM (Viton®), optional: FFKM (Kalrez®), EPD	M			
Explosion	protection	-	See "Ex In	formation"			
Weight (he	ead unit)	1.3 kg	2.2 kg	3.9 kg			
(1) Under ret	ference conditions and constant	temperature ⁽²⁾ The use of SAP_30	0 araphic displays is limited in hazardous environ	ment For further information see "Ex Information"			

(1) Under reference conditions and constant temperature. (2) The use of SAP-300 graphic displays is limited in hazardous environment. For further information, see "Ex Information". (3) In an industrial environment, reliable operation can be guaranteed with a terminal voltage >13 V.

Ex INFORMATION

		HDD-7DD-8 Ex / H	□ □−9 □ □−8 E x	H□□-7□□-6 Ex	H00-700-5 Ex	H00-700-9 Ex
		Without probe coating, without display			H□□-9□□-5 Ex	H□□-9□□-9 Ex
Protection		Ex ia G		Ex ia D	Ex ta/tb D	Ex ta D ⁽⁴⁾
Ex marking ⁽⁵⁾	ATEX	🐵 II 1 G Ex ia IIC T6 T3 Ga	🖾 II 1 G Ex ia IIB T6 T3 Ga	₩ II 1 D Ex ia IIIC T85°CT180°C Da	ⓑ II 1/2 D Ex ta/tb IIIC T85°C T180°C Da/Db	₪ II 1D Ex ta IIIC T105°C Da
	IEC Ex ⁽⁶⁾	Ex ia IIC T6 T3 Ga	Ex ia IIB T6 T3 Ga	Ex ia IIIC T85°CT180°C Da	Ex ta/tb IIIC T85°CT180°C Da/Db	Ex ta IIIC T105°C Da
Ex supply voltage and intrinsic safety data		$\begin{array}{l} {\rm C_{_i} \leq 25 \; nF, L_{_i} \leq 300 \; \mu H, U_{_i} \leq 30 \; V,} \\ {\rm I_{_i} \leq 100 \; mA, P_{_i} \leq 0.75 \; W} \end{array}$	$C_{_{i}} \leq 25 \text{ nF, } L_{_{i}} \leq 300 \mu\text{H, } U$	$_{\rm i}$ \leq 30 V, I $_{\rm i}$ \leq 140 mA, P $_{\rm i}$ \leq 1 W	mA, $P_i \leq 1$ W U _i = 30 V DC, I _i = 1 A	
Supply voltage		12 ⁽⁷⁾ 30 V DC				
Electrical connection	tion 2× M20×1.5 metal cable glands, cable outer diameter: Ø6Ø12 mm, wire cross section: maximum 1.5 mm ²					
Ambient temperature			-30	+65 °C, with display: -20+	65 °C	

 $^{\rm (4)}$ Ex ta D protection class devices are available only with a windowless cap. $^{\rm (6)}$ IEC Ex compliance is optional; must be requested in the order.

⁽⁵⁾ In IIC environment SAP-300 graphic display must not be used!

 $^{(7)}$ In an industrial environment, reliable operation can be guaranteed with a terminal voltage >13 V.

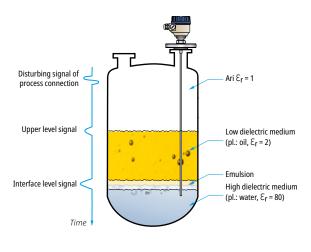
NEW Guided Microwave Level Transmitters

MEASURABILITY OF THE MEDIUM

The measurability of the medium and the reflected signal strength depends on the relative dielectric constant of the medium.



Informative E _r values						
Butane	1.4	Grain	35			
Cement	1.510	Cooking oil	3.9			
LPG	1.61.9	Limestone	6.19.1			
Kerosene	1.82.1	Acetone	21			
Crude oil	2.1	Ethanol	24			
Diesel oil	2.1	Methanol	33.1			
Gasoline	2.3	Glycol	37			
Asphalt	2.6	Nitrobenzene	40			
Clinker	2.7	Water	80			
Resin	2.43.6	Sulphuric acid (T = 20 °C)	84			



INTERFACE MEASUREMENT OF LIQUIDS

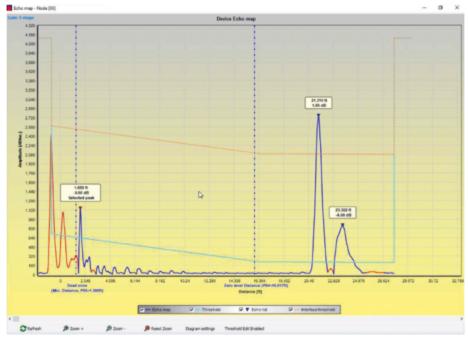
Non-conductive materials are semi-transparent to the microwave signal. Such materials only partially reflect the energy of the microwave signal. The non-reflected part of the emitted measuring signal energy passes through the non-conductive medium and is reflected from the phase boundary of the lower liquid. The versions of the MicroTREK suitable for interface measurement work on this principle.

TYPICAL APPLICATIONS FOR INTERFACE MEASUREMENT

Storage or separator tanks containing water, and oils or other low dielectric, non-conductive, water-insoluble liquid chemicals. Most often, we encounter guided microwave phase boundary measurement in the oil industry, which practically has displaced all other measurement methods. MicroTREK H–700 devices ordered with interface measurement option can measure the upper level of already

separated liquids, the phase boundary (*interface*) level, or the thickness of the upper liquid layer. Depending on the setting, any of listed measured values can be assigned to the 4...20 mA and HART® outputs.

MicroTREK H–700 series with interface option are suitable for phase boundary (*interface*) measurement with any NIVELCO made probe. The use of more sensitive probes (*twin and coaxial*) is recommended for more critical applications.



The basic criteria for interface measurement

- The upper liquid layer must be electrically non-conductive
 - The value of relative dielectric constant of the upper liquid layer must be known
 - The upper liquid layer must be homogeneous, its composition and material structure must not change
 - The upper layer of the fluid can only be measured if its layer thickness exceeds 120 mm
 - The lower and upper liquids must be separated from each other, free from emulsion transition
 - The lower liquid layer must be electrically conductive, or if it is not, than the difference in the relative dielectric constants of the two liquids must be greater than 10.*

*In the case of clean separation of the liquids and use of a most sensitive coaxial probe.

NEW Guided Microwave Level Transmitters

PROBES

Reliable measurement with microwaves depends on selecting the appropriate probes and taking the medium's properties and other vessel conditions into consideration.

			Max.	Dead zone ⁽¹⁾		
Probe	ε _{r min.}	Process connection	measuring range	Upper (t) / lower (b) ε _r = 80	Upper (t) / lower (b) ε _r = 2.4	
Mono cable Ø4 mm		1"; 1½"	30 m			
Mono cable Ø8 mm	2.1	11⁄2"	30 m	250 mm / 20 mm	350 mm / 100 mm	
Mono rod Ø8 mm	2.1	ן "	3 m	230 mm 7 20 mm	330 mm / 100 mm	
Mono / segmented rod Ø14 mm		6 m				
Twin cable Ø4 mm	1.0	1.8	۹ ۱½"	30 m	150 mm / 20 mm	300 mm / 100 mm
Twin rod Ø8 mm	1.0		3 m	130 mm 7 20 mm	300 mm / 100 mm	
Coaxial pipe Ø28 mm	1.4	1"; 1½"	6 m	0/10 mm	0 / 100	
Segmented coaxial pipe Ø14 mm	1.6	11⁄2"	οm	0710mm	0 / 100 mm	
Coated cable Ø6 mm	2.4	1"; 1½" TriClamp; DN40 MILCH, DN50	30 m	250 mm / 20 mm	350 mm / 100 mm	
Coated rod Ø12 / Ø16 mm		DN50	3 m			

(1) The unmeasurable upper and lower part of the tank, the lower dead zone is extended with the length of the counterweight (cable versions only)

PROBE PROPERTIES

Туре	H□K, H□L H□V, H□W	H⊡R, H⊡P	H□S, H□Z	НОМ, НОЈ	ΗΩΤ, ΗΩŬ	HOD, HOE	Н□А, Н□В Н□С, Н□Н	
Probe	Ø4 mm cable	Rod	Rod / segmented rod	Ø8 mm cable	Ø4 mm twin cable	Twin rod	Coaxial	
Maximum measuring distance	30 m	3 m	6 m	30	m	3 m	6 m	
Min. meas. dist. (ϵ_r = 80 / ϵ_r = 2.4)		250 mm	n / 350 mm		150 mm /	300 mm	0 m	
Lowest ϵ_{r} of medium			2.1 1.8			3	1.4	
Sensing space around the probe		Ø	Ø600 mm Ø200 m			mm	0 mm	
D	1" BSP / NPT	1" BSP 11/2" BSP			SP		1" BSP / NPT	
Process connection	11/2" BSP / NPT	1" NPT	1" NPT 11/2" NPT				11⁄2" BSP / NPT	
Probe material	1.4401		1.4571	1.44	401	1	1.4571	
Probe nominal Ø	4 mm	8 mm	14 mm	8 mm	4 mm	8 mm	28 mm	
Weight	0.12 kg/m	0.4 kg/m	1.2 kg/m	0.4 kg/m	0.24 kg/m	0.8 kg/m	1.3 kg/m	
Separator material (2)			-		PFA, welded onto the cable	PTFE-GF25	PTFE	
Weight dimensions	Ø25 × 100 mm		-	Ø40 × 260 mm	Ø40 × 80 mm		-	
Weight material	1.4571		-	1.43	571		-	

⁽²⁾ There is no separator below 1.5 m length

COATED PROBE PROPERTIES

Туре	H□F, H□G	Н□Х	Н□Ү	Н□м	H□Q	H□O	HDI
Probe	Ø4	mm FEP-coated cab	e	Ø4 mm fully FEP/PFA-coated cable	Fully P	FA-coated rod	Fully PP-coated rod
Maximum measuring distance			30 m			3 m	
Min. meas. dist. (ϵ_r = 80 / ϵ_r = 2.4)				250 mm / 350 mm			
Lowest ε_r of medium				2.1			
Minimal sensory distance from sensor				Ø600 mm			
Process connection	1" BSP / NPT	1½" TriClamp	DN40 MILCH	DN50 PN25 flar	nge	1½" TriClamp	DN50 PN25
Highest process temperature		+200 °C		+	150 °C		+60 °C
Probe material			1.4401			1.4571	
Probe coating			FEP			PFA	PP
Probe nominal Ø			6 mm			12 mm	16 mm
Fillet coating		-		FEP / PFA		PFA	PP
Weight material	1.4571			1.4571 + PFA-coating	-		
Weight dimensions	Ø25 × 100 mm					_	
Weight		0	.16 kg/m		0.	5 kg/m	0.6 kg/m

MicroTREK H–700 with cable probe

	ransmitter for liquids and free-flowing solids r twin cable probe with or without plastic coating		
Version / Temperature			œ ⊡
T	Transmitter / Flange temperature max. +90 °C		
H	High-temperature transmitter / Flange temp. max. +200 °C (M type only up to +150 °C)		
В	Transmitter with plug-in display / Flange temperature max. +90 °C	Ĭ	
P	High-temperature transmitter with plug-in display / Flange temp. max. +200 °C (M type only up to +150 °C)	<u>Ø4</u>	Ø8
Probe / Process conne		_	
H 🛛 - 🔳 🖬 - 🔳			Ø40_
К	Mono cable, Ø4 mm, 1.4401 / 1" BSP / max. 30 m		
L	Mono cable, Ø4 mm, 1.4401 / 1" NPT / max. 30 m	Ø25 ° 8	26
V	Mono cable, Ø4 mm, 1.4401 / 11⁄2" BSP / max. 30 m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
W	Mono cable, Ø4 mm, 1.4401 / 11⁄2" NPT / max. 30 m	<u> </u>	¥¥.
1	Mono cable, Ø4 mm, 1.4401 / 11⁄2" TriClamp / max. 30 m	M8	<u>M12</u>
2	Mono cable, Ø4 mm, 1.4401 / 2" TriClamp / max. 30 m		
N	Mono cable, Ø8 mm, 1.4401 / 11⁄2" BSP / max. 30 m	HOK/HOL/HOV/	H□N / H□J-700 / 800
	Mono cable, Ø8 mm, 1.4401 / 1½" NPT / max. 30 m	HOW-700 / 800	
Т	Twin cable, 2x Ø4 mm, 1.4401 / 11⁄2" BSP / max. 30 m		
U	Twin cable, 2x Ø4 mm, 1.4401 / 11⁄2" NPT / max. 30 m		
F	 Mono cable, Ø4 mm, + FEP-coated / 1" BSP / max. 30 m 		
J	 Mono cable, Ø4 mm, + FEP-coated / 1" NPT / max. 30 m 		
A	 Mono cable, Ø4 mm, + FEP-coated / TriClamp 1½" / max. 30 m 		
	 Mono cable, Ø4 mm, + FEP-coated / Sanitary DN40 / max. 30 m 	The second se	
M	Mono cable, Ø4 mm, + PFA/FEP fully coated / DN50, PN25, 1.4571 + PFA/FEP lining	A THE	
* Only the cable probe is co	ated	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Housing			
H 🛛 – 🗆 🗖 – 🗖		Ø4	Ø6_
7	Painted aluminum	~~~	
8	Fiberglass-reinforced plastic (PBT) (Ex version not available)		
9	Stainless steel		
Probe length / Materia	al	Ø40_	Ø25
H H H - H - H - H	1.030.0 m (sold by the meter), for mono cable, Ø4 mm / 1.4401	8	<u>₩23</u> • •
nn	1.030.0 m (sold by the meter), for mono cable, Ø8 mm / 1.4401	<u> </u>	
n n n n	1.030.0 m (sold by the meter), for twin cable / 1.4401		M8
n n	1.030.0 m (sold by the meter), for mono cable, Ø4 mm / 1.4401 + FEP	<u>M8</u>	
nn = 0130 : 1.030.0 m		H□T / H□U-700 / 800	H□F / H□G-700 / 800
Output / Certificates			
H 🗰 – 🖬 🖬 – 🗖			
4	420 mA + HART®		
5	420 mA + HART [®] / Ex ta/tb D (only for uncoated probe versions)		
6	420 mA + HART [®] / Ex ia D (only for uncoated probe versions)	TriClamp	Milch
8	420 mA + HART [®] / Ex ia G (plastic-coated probes Ex ia IIB only)	11/2"	DN40
9	420 mA + HART [®] / Ex ta D (only for uncoated probe versions)	† [
H Need of IEC Ex is to be spec	420 mA + HART [®] + Relay ified in the text part of the order		
	see relevant page for details)	<u>Ø6</u>	
	Graphic plug-in display module		
S A P - 3 0 0 - 0	Graphic plug-in display module HART®-USB/Bluetooth® modem	I B	1
SAT - 504 -	HART®-USB/R5485 modem		
SAK - 305 -	rice information on request)	Ø25	Ø25 8
- DIN and ANSI flanges			↓ ─ ►

5 years

- DIN and ANSI flanges

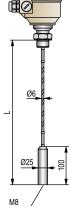
- DN40 Pipe coupling (DIN 11851)

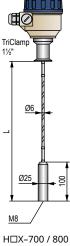
Process seal material (factory default: FPM)

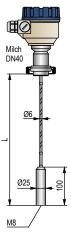
- EPDM

- FFKM

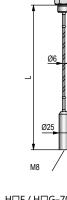
The above process connections and process seals are ordered separately and must be specified in the text part of the order







H□Y-700 / 800



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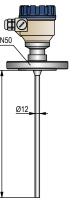
ith stainless steel mono	l transmitter for liquids and free-flowing solids o or twin rod probe with or without plastic coating
ersion / Temperatu	re
т	Transmitter / Flange temperature max. +90 °C
н	High-temperature transmitter / Flange temp. max. +200 °C (up to +150 °C with plastic-coated probes)
В	Transmitter with plug-in display / Flange temperature max. +90 °C
P	High-temperature transmitter with plug-in display / Flange temp. max. +200 °C (up to +150 °C with plastic-coated probes)
Probe / Process conr	nection
1 🗖 🗆 – 🗖 🗖 – 🗖	
R	Mono rod, Ø8 mm, 1.4571 / 1" BSP / max. 3 m
P	Mono rod, Ø8 mm, 1.4571 / 1" NPT / max. 3 m
3	Mono rod, Ø8 mm, 1.4571 / 1½" TriClamp / max. 3 m Twin rod, 1.4571 / 1½" BSP / max. 3 m
D E	Twin rod, 1.45717172 BSP7 max. 3 m Twin rod, 1.45717172 BSP7 max. 3 m
Q	Mono rod + PFA-coated / DN50, PN25, 1.4571 + PFA lining
-	Mono rod + PP-coated / DN50, PN25, 1.4571 + PP lining (up to a maximum flange
I	temperature of +60 °C)
0	Mono rod + PFA-coated / 11/2" TriClamp PFA-coated
7	Mono rod + PFA-coated / 2" TriClamp PFA-coated
Housing	
7	Painted aluminum
8	Fiberglass-reinforced plastic (PBT) (Ex version not available)
9	Stainless steel
Probe length / Mate	rial
┫■■-■□□-■	
nn	1.03.0 m (each 0.1 m), for mono rod / 1.4571
n n	1.03.0 m (each 0.1 m), for mono rod / 1.4571, PP-coated
n n	1.03.0 m (each 0.1 m), for mono rod / 1.4571, PFA-coated
n n nn = 1030 : 1.03.0 m	1.03.0 m (each 0.1 m), for twin rod / 1.4571
Output / Certificates	
4	420 mA + HART®
5	420 mA + HART [®] / Ex ta/tb D (only for uncoated probe versions)
6	420 mA + HART [®] / Ex ia D (only for uncoated probe versions)
8	420 mA + HART [®] / Ex ia G (in the case of plastic-coated probes, only Ex ia IIB)
9	420 mA + HART [®] / Ex ta D (only for uncoated probe versions)
н	420 mA + HART® + Relay
Need of IEC Ex is to be sp	becified in the text part of the order
Available on request	t (see relevant page for details)
SAP-300-0	Graphic plug-in display module
SAT – 504 – 📕	HART [®] -USB/Bluetooth [®] modem
SAK – 305 – 📕	HART [®] -USB/RS485 modem
Process connections (price information on request)
- DIN and ANSI flanges	
DN40 Pipe coupling (DI	N 11851)
Process seal materia	l (factory default: FPM)
EPDM	
ocess seal materia	





H□R / H□P-700 / 800

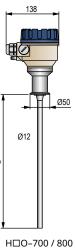
H□D / H□E-700 / 800





H□Q-700 / 800

H□I-700 / 800



the order

LEVEL TRANSMITTERS

	ansmitter for liquids and free-flowing solids I rod or coaxial probe		
Version / Temperature			
		• <u> </u>	
T	Transmitter / Flange temperature max. +90 °C	T	
Н	High-temperature transmitter / Flange temp. max. +200 °C		
В	Transmitter with plug-in display / Flange temperature max. +90 °C		I
P	High-temperature transmitter with plug-in display / Flange temp. max. +200 °C		
Probe / Process conne	tion		
1			
-	 Mono rod, Ø14 mm, 1.4571 / 1½" BSP / max. 6 m 		
Z	 Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m 		
4	Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m		
Α	Coaxial, 1.4571 / 1" BSP / max. 6 m	<u>Ø14</u>	
В	Coaxial, 1.4571 / 1" NPT / max. 6 m		
C	 Coaxial, 1.4571 / 11/2" BSP / max. 6 m 	 	_
Н	 Coaxial, 1.4571 / 11/2" NPT / max. 6 m 	H□S / H□Z-700 / 800	
5	Coaxial, 1.4571 / 11⁄2" TriClamp / max. 6 m		
6	Coaxial, 1.4571 / 2" TriClamp / max. 6 m	- II I	I H I
* Can be ordered with segn section is 1 m.	nented probe which must be specified in the text of the order. The length of a probe		
Housing			
H		-	1000
7	Painted aluminum		
8	Fiberglass-reinforced plastic (PBT) (Ex version not available)		
9	Stainless steel		
Probe length / Materia			
	<u>-</u>		-
H H H - H D D - H	10.00 m(arch 0.1 m) for more red (1.1571)		
n n	1.06.0 m (each 0.1 m), for mono rod / 1.4571		014
nn	1.06.0 m (each 0.1 m), for coaxial / 1.4571	H□S/ŀ	1□Z-700 / 800
nn	1.06.0 m (each 0.1 m), for segmented mono rod / 1.4571	ି with	segmented
n n nn = 1060 : 1.06.0 m	1.06.0 m (each 0.1 m), for segmented coaxial / 1.4571		probe
		0	
Output / Certificates		• II	
H 🛛 🗕 🗖 🗖 🗖 🗖 🗖			
4	420 mA + HART®		
5	420 mA + HART [®] / Ex ta/tb D		
6	420 mA + HART [®] / Ex ia D	•	
8	420 mA + HART [®] / Ex ia G	<u>+</u>	
9	420 mA + HART [®] / Ex ta D	Ø28_	
н	420 mA + HART® + Relay		
	ified in the text part of the order	НПА / НПВ / НПС / НПН-700 / 8	800
Available on request (s	ee relevant page for details)		
S A P - 3 0 0 - 0	Graphic plug-in display module		
SAT – 504 –	HART®-USB/Bluetooth [®] modem		
S A K – 3 0 5 – 📕	HART [®] -USB/RS485 modem		
	ice information on request)		
- DIN and ANSI flanges		Ŭ.	
	1851)		
- DN40 Pipe coupling (DIN 1			
	factory default: EPM)		
Process seal material (
Process seal material (- EPDM		ा	
Process seal material (- EPDM - FFKM	ons and process seals are ordered separately and must be specified in the text part of		
- DN40 Pipe coupling (DIN 5 Process seal material (- EPDM - FFKM The above process connect the order		• • •	
Process seal material (- EPDM - FFKM The above process connect		• • •	
Process seal material (- EPDM - FFKM The above process connect		• • •	0 0 0 0
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Process seal material (EPDM FFKM he above process connect		• • •	° ° °
Process seal material (EPDM FFKM he above process connect		• • •	° ° °



H□C / H□H–700 / 800 with segmented probe

Ø28

LEVEL TRANSMITTERS

MicroTREK H–700 w	vith cable probe, with interface function 5 years		
2-wire compact TDR level tra	insmitter with interface function		
	twin cable probe with or without plastic coating		
Version / Temperature			
H 🗆 – 🔳 🖬 – 📕	Transmitter / Flange temperature max. +90 °C		
E	High-temperature transmitter / Flange temp. max. +200 °C (M type only up to +150 °C)	ĪΤ	
D	Transmitter with plug-in display / Flange temperature max. +90 °C	I Y	I H
F	High-temperature transmitter with plug-in display / Flange temp. max. +200 °C (M type only up to +150 °C)	<u>Ø4</u>	Ø8
Probe / Process connec	tion		_
H 🗆 - 🛛 - 🗖			Ø40
К	Mono cable, Ø4 mm, 1.4401 / 1" BSP / max. 30 m		
L	Mono cable, Ø4 mm, 1.4401 / 1" NPT / max. 30 m	Ø25 ° 8	56
V	Mono cable, Ø4 mm, 1.4401 / 11⁄2" BSP / max. 30 m		
W	Mono cable, Ø4 mm, 1.4401 / 1½" NPT / max. 30 m	<u> </u>	I I I I I I I I I I
1	Mono cable, Ø4 mm, 1.4401 / 1½" TriClamp / max. 30 m	<u>M8</u>	<u>M12</u>
2	Mono cable, Ø4 mm, 1.4401 / 2" TriClamp / max. 30 m		
N	Mono cable, Ø8 mm, 1.4401 / 11/2" BSP / max. 30 m	HOK / HOL / HOV /	H□N / H□J-700 / 800
J	Mono cable, Ø8 mm, 1.4401 / 1½" NPT / max. 30 m Twin cable, 2x Ø4 mm, 1.4401 / 1½" BSP / max. 30 m	H□W-700 / 800	-
T U	Twin cable, 2x Ø4 mm, 1.4401 / 1½" NPT / max. 30 m		
F *	 Mono cable, Ø4 mm, + FEP-coated / 1" BSP / max. 30 m 		
F G *			
X *			
γ *			
M * Only the cable probe is coa	Mono cable, Ø4 mm, + PFA/FEP fully coated / DN50, PN25, 1.4571 + PFA/FEP lining		
Housing		Ϋ́́Υ	l I
7	Painted aluminum	Ø4	Ø6
8	Fiberglass-reinforced plastic (PBT) (Ex version not available)		k
9	Stainless steel		
Probe length / Material			
H - D			Ø25 8
nn	1.030.0 m (sold by the meter), for mono cable, Ø4 mm / 1.4401	8	→ ≠
nn	1.030.0 m (sold by the meter), for mono cable, Ø8 mm / 1.4401	<u>+ </u>	
nn	1.030.0 m (sold by the meter), for twin cable / 1.4401	M8	M8 /
n n	1.030.0 m (sold by the meter), for mono cable, Ø4 mm / 1.4401 + FEP	HDT / HDU-700 /	H□F / H□G-700 / 800
nn = 0130 : 1,030,0 m		800	
Output / Certificates			
H 🗰 - 🗰 🖬 - 🗆			
4	420 mA + HART®		
8	420 mA + HART [®] / Ex ia G (plastic-coated probes Ex ia IIB only)		UH C
Н	420 mA + HART® + Relay	TriClamp	Milch
Т *		11/2"	DN40
U *		↑ Į	
	fied in the text part of the order		
Available on request (se	ee relevant page for details)	Ø6	Ø
SAP-300-0	Graphic plug-in display module		
SAT – 504 – 📕	HART [®] -USB/Bluetooth [®] modem		
SAK – 305 – 📕	HART®-USB/RS485 modem		l İ
Process connections (price	ce information on request)		
- DIN and ANSI flanges		<u>Ø25</u> 8	<u>Ø25</u>
- DN40 Pipe coupling (DIN 1	1851)		¥ ļļ ¥
Process seal material (f	actory default: FPM)	<u></u>	<u>M8</u>
- EPDM		H□X-700 / 800	H□Y-700 / 800
- FFKM			

The above process connections and process seals are ordered separately and must be specified in the text part of

NIVELCO

the order

** Under development

MicroTREK H-700 w	vith Ø8 mm rod probe, with interface function 5 years		
	ansmitter with interface function twin rod probe with or without plastic coating		
Version / Temperature			
H 🗆 🖬 – 🔳 🖬 – 📕		H	The second se
С	Transmitter / Flange temperature max. +90 °C		
E	High-temperature transmitter / Flange temp. max. +200 °C (M type only up to +150 °C)	H	T T T
D	Transmitter with plug-in display / Flange temperature max. +90 °C		
F	High-temperature transmitter with plug-in display / Flange temp. max. +200 °C (up to +150 °C with plastic-coated probes)		
Probe / Process connec	tion		
H 🛛 - 🗶 🖉 - 🜌			d d d
R	Mono rod, Ø8 mm, 1.4571 / 1" BSP / max. 3 m		
Р	Mono rod, Ø8 mm, 1.4571 / 1" NPT / max. 3 m		
3	Mono rod, Ø8 mm, 1.4571 / 11⁄2" TriClamp / max. 3 m	<u>+</u>	
D	Twin rod, 1.4571 / 1½" BSP / max. 3 m	<u>Ø8</u>	
E	Twin rod, 1.4571 / 1½" NPT / max. 3 m	> -	
Q	Mono rod + PFA-coated / DN50, PN25, 1.4571 + PFA lining	HOR / HOP-	HOD / HOE-
I	Mono rod + PP-coated / DN50, PN25, 1.4571 + PP lining (up to a maximum flange	700 / 800	700 / 800
	temperature of +60 °C)		
0	Mono rod + PFA-coated / 1½" TriClamp PFA-coated Mono rod + PFA-coated / 2" TriClamp PFA-coated		
7	Mono rou + PrA-coaleu / z inclanip PrA-coaleu		
Housing			
H H H - H H - H	Defete de l'unione		
7	Painted aluminum	DN50	DN50
8	Fiberglass-reinforced plastic (PBT) (Ex version not available) Stainless steel		
9			T T
Probe length / Material			
H 🖉 – 🗖 🗆 – 🗖			
nn	1.03.0 m (each 0.1 m), for mono rod / 1.4571	<u>Ø12</u>	<u>Ø16</u>
nn	1.03.0 m (each 0.1 m), for mono rod / 1.4571, PP-coated		
nn	1.03.0 m (each 0.1 m), for mono rod / 1.4571, PFA-coated		
n n	1.03.0 m (each 0.1 m), for twin rod / 1.4571		
nn = 1030 : 1.03.0 m			
Output / Certificates			
H 🛛 – 🖉 🗖 – 🗆			
4	420 mA + HART®	H□Q-700 / 800	H□I-700 / 800
8	420 mA + HART [®] / Ex ia G (plastic-coated probes Ex ia IIB only)		
Н	420 mA + HART [®] + Relay		
T *	 2x 420 mA + HART® 2x 420 mA + HART® (Fuile C (electic control graph of Fuile UD end)) 		
U *			
	fied in the text part of the order		
Available on request (se	ee relevant page for details)		
SAP-300-0	Graphic plug-in display module		
SAT – 504 –	HART®-USB/Bluetooth® modem		
SAK – 305 – 📕	HART®-USB/RS485 modem	T	
Process connections (pri	ce information on request)		
- DIN and ANSI flanges			
- DN40 Pipe coupling (DIN 1	1851)		
Process seal material (f	factory default: FPM)	Ø12	
- EPDM			
- FFKM			
	ons and process seals are ordered separately and must be specified in the text part of		
the order			

** Under development

HDO-700 / 800



LEVEL TRANSMITTERS

H Problement / Material h Problement / Material h n n 1.06.0 m (each 0.1 m), for monor od / 1.4571	with stainless steel Ø14 mm ro Version / Temperature H I I I - I I I I - I C E D F Probe / Process connecti H I I - I I I I - I S * Z *	d or coaxial probe Transmitter / Flange temperature max. +90 °C High-temperature transmitter / Flange temp. max. +200 °C Transmitter with plug-in display / Flange temperature max. +90 °C High-temperature transmitter with plug-in display / Flange temp. max. +200 °C on Mono rod, Ø14 mm, 1.4571 / 1½" BSP / max. 6 m Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
1 -	I I I - I I - I I - I I - I I - I I - I I - I I - I I - I I -	High-temperature transmitter / Flange temp. max. +200 °C Transmitter with plug-in display / Flange temperature max. +90 °C High-temperature transmitter with plug-in display / Flange temp. max. +200 °C on Mono rod, Ø14 mm, 1.4571 / 1½" BSP / max. 6 m Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
Image:	H I I - I I I - I I I - I I I I - I I I I - I	High-temperature transmitter / Flange temp. max. +200 °C Transmitter with plug-in display / Flange temperature max. +90 °C High-temperature transmitter with plug-in display / Flange temp. max. +200 °C on Mono rod, Ø14 mm, 1.4571 / 1½" BSP / max. 6 m Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
 High-temperature transmitter / Hange temp, max. 200 °C High-temperature transmitter with plug in display / Flange temp: max. ex00 °C High-temperature transmitter with plug in display / Flange temp: max. ex00 °C High-temperature transmitter with plug in display / Flange temp: max. ex00 °C High-temperature transmitter with plug in display / Flange temp: max. ex00 °C High-temperature transmitter with plug in display / Flange temp: max. ex00 °C High-temperature transmitter with plug in display / Flange temp: max. ex00 °C High-temperature transmitter with plug in display / Flange temp: max. ex00 °C Coacal, 14371 / 119 / 119 / 117 max. 6m Coacal, 14371 / 119 / 119 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110 / 110 / 110 max. 6m Coacal, 14371 / 110	E D F Probe / Process connecti H I I - I I I I - I S * Z *	High-temperature transmitter / Flange temp. max. +200 °C Transmitter with plug-in display / Flange temperature max. +90 °C High-temperature transmitter with plug-in display / Flange temp. max. +200 °C on Mono rod, Ø14 mm, 1.4571 / 1½" BSP / max. 6 m Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
Transmitter with plug in display / Range temps name max. +90 °C Tobe / Process connection Probe / Process connection The denored, 014 mm. 14571 / 171 PS DP / nmax. 6 m Consist, 14571 / 171 PS DP / nmax. 6 m Consist, 14571 / 171 PS DP / nmax. 6 m Consist, 14571 / 171 PS / nmax. 7 m Consist, 14571 / 171 PS / nmax. 7 m Consist, 14571 / 171 PS / nmax. 7 m Consist, 14571 / 171 PS / nmax. 7 m Consist, 14571 / 171 PS / nmax. 7 m Consist, 14571 / 171 PS / nmax. 7 m Consist, 14571 / 171 PS / nmax. 7 m Consolution matcall for earde	D F Probe / Process connecti H I I - I I I I - I S * Z *	Transmitter with plug-in display / Flange temperature max. +90 °C High-temperature transmitter with plug-in display / Flange temp. max. +200 °C on Mono rod, Ø14 mm, 1.4571 / 1½" BSP / max. 6 m Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
Fight-temperature transmitter with plag-in display / Flange temp, max. >000 °C Probe / Process connection S •<	F Probe / Process connecti H III - IIII - IIII S * Z *	High-temperature transmitter with plug-in display / Flange temp. max. +200 °C on Mono rod, Ø14 mm, 1.4571 / 1½" BSP / max. 6 m Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
Probe / Process connection S Mono rod, 014 mm, 1457 / 152 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Could, 1457 / 178 MF / max 6 m Scould (1457 / 178 MF / max 6 m Scould (1457 / 178 MF / max 6 m Scould (1457 / 178 MF / max 6 m Scould (1457 / 178 MF / max 6 m Scould (1457 / 178 MF / max 6 m Scould (1457 / 178 MF / max 6 m Scould (145 MF / max 6 m) Scould (147 MF	Probe / Process connecti H III - IIII - IIII S * Z *	Mono rod, Ø14 mm, 1.4571 / 1½" BSP / max. 6 m Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
Monorod, 914 mm, 14571 / 197 BSP / max. 6 m Monorod, 914 mm, 14571 / 197 BSP / max. 6 m Coskil, 14571 / 197 PSP / max. 6 m Coskil, 14571 / 198 / max. 6 m Coskil, 1457 / 198 / max. 6 m Coskil, 14571 / 198 / max. 6 m Coskil, 1457 / 198 / max. 6 m Coskil, 1458 / max. 6	1	Mono rod, Ø14 mm, 1.4571 / 1½" BSP / max. 6 m Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
	S * Z *	Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
 More ond, 014 nm, 14571 / 197: MPL / max. 6 m Costel, 14571 / 1952 / max. 6 m Costel, 14571 / 1975 / max. 6 m Stainless steel Probe length / Material I - 0 0 1 060 m (sedth 0.1 m), for monor od / 14571 n 1.060 m (sedth 0.1 m), for segmented monor d/ 14571 n 1.060 m (sedth 0.1 m), for segmented monor d/ 14571 n 1.060 m (sedth 0.1 m), for segmented monor d/ 14571 n 1.060 m (sedth 0.1 m), for segmented monor d/ 14571 n 1.060 m (sedth 0.1 m), for segmented monor d/ 14571 n 1.060 m (sedth 0.1 m), for segmented monor d/ 14571 n 2.420 mA + HART* / Exis (glostic coated probes Exis IIB only) veed dTRC Exis to be specified in the text part of the order ValiAlse on request (see relevant page of details) X - 3 0 4 - HART* VisiS (Blostic coated probes Exis IIB only) veed dTRC Exis to be specified in the text part of the order WalkAlse neges <li< td=""><td>Z *</td><td>Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m</td><td></td></li<>	Z *	Mono rod, Ø14 mm, 1.4571 / 1½" NPT / max. 6 m Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
Monorod, 0H, am, 14577 / 22 TriClamp / max. 6 m Costaid, 14577 / 17957 / max. 6 m Costaid, 14577 / 1795 / max. 6 m Costaid, 14577 / 1705 / max. 6 m To costaid / 14577 - m Dotent / Material Poelearghy / Material Dotent / Material Material Dotent / Material Dotent		Mono rod, Ø14 mm, 1.4571 / 2" TriClamp / max. 6 m Coaxial, 1.4571 / 1" BSP / max. 6 m	
A Coasial, 14571 / 1957 / max. 6 m C Coasial, 14571 / 1975 / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Coasial, 14571 / 1975 / ficam / max. 6 m C Lib ordered with signmented Journinum 8 Enterglass-reinforced plastic (PB1) (£v version not available) 9 Statiles stell Probe length / Material 1 0 - 0 1 0 - 0 1 0 6 m (each 0.1 m), for segmented monor of / 14571 n n 10 6.0 m (each 0.1 m), for segmented monor of / 14571 n n 10 6.0 m (each 0.1 m), for segmented coasial / 1.4571 n n 10 6.0 m (each 0.1 m), for segmented coasial / 1.4571 n n 10 6.0 m (each 0.1 m), for segmented coasial / 1.4571 n n 2 0 0 m + HART ⁿ / Ex ia G (plastic coated probes Ex ia 118 only) H 4 . 2.0 mA + HART ⁿ / Ex ia G (plastic coated probes Ex ia 118 only) H 4 . 2.0 mA + HART ⁿ / Ex ia G (plastic coated probes Ex ia 118 only) H 4 . 2.0 mA + HART ⁿ / Ex ia G (plastic coated probes Ex ia 118 only) H 4 . 2.0 mA + HART ⁿ / Ex ia G (plastic coated probes Ex ia 118 only) H 4 . X - 3 0 0 - 0 Graphic plug-in display module SA P - 3 0 0 - 0 Graphic plug-in display module SA P - 3 0 0 - 0 Graphic plug-in display module SA K - 3 0 0 - 0 Graphic plug-in display module Fix A K - 3 0 0 - 0 Graphic plug-in display module Fix A K - 3 0 0 - 0 Graphic plug-in display module Fix A K - 3 0 0 - 0 Graphic plug-in display module Fix A K - 3 0 0 - 0 Graphic plug-in display module Fix A K - 3 0 0 - 0 Graphic plug-in display module Fix A K - 3 0 0 - 0 Graphic plug-in display module Fix		Coaxial, 1.4571 / 1" BSP / max. 6 m	014
 Casaid, 1457/ 1/Y 187/ Trax. 6 m Casaid, 1457/ 1/Y 187/ 1/Y 187/ 1/Y 187 Potelength/ Material Potelength/ Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Potelength Pote	4		
C • Coaxial, L4571 / 119: PSP / max.6 m H • Coaxial, L4571 / 119: Thir(Lamp / max.6 m Cab cordered with segmented probe which must be specified in the text of the order. The length of a probe Cab cordered with segmented probe which must be specified in the text of the order. The length of a probe Cab cordered with segmented probe which must be specified in the text of the order. The length of a probe Pointed aluminum 8 Fiberglass-reinforced plastic (PBT) (Exversion not available) 9 Stainless steel Pointed aluminum B 10 C.0 m (each 0.1 m), for esemented mono rod / 1.4571 10 D D 10 Coawai HART* / Exis G (plastic-coated probes Exis IB Bonly) 4 <t< td=""><td>Α</td><td>Coaxial, 1.4571 / 1" NPT / max. 6 m</td><td></td></t<>	Α	Coaxial, 1.4571 / 1" NPT / max. 6 m	
H Cooking, LSF71 / 19: / MAX. 5 m S Cooking, LSF71 / 19: / MAX. 5 m Cooking, LSF71 / 19: / MAX. 5 m Can be ordered with segmented probe which must be specified in the text of the order. The length of a probe for device with segmented probe which must be specified in the text of the order. The length of a probe for device with segmented probe which must be specified in the text of the order. The length of a probe for device with segmented probe which must be specified in the text of the order. The length of a probe for device length / Material for a for device with segmented probe which must be specified in the text of the order. robe length / Material for a for device with segmented probe which must be specified in the text of the order. robe length / Material for a for device with segmented mone rod / 1.4571 n n 106.0 m (each 0.1 m), for mone rod / 1.4571 n n 106.0 m (each 0.1 m), for segmented mone rod / 1.4571 m n 106.0 m (each 0.1 m), for segmented mone rod / 1.4571 m n 106.0 m (each 0.1 m), for segmented mone rod / 1.4571 m n 106.0 m (each 0.1 m), for segmented mone rod / 1.4571 m n 206.0 m Output / Certificates for a 420 mA + HART* / Exia (plastic-coated probes Exia IIB only) K A - 3 0 5 - M HART* / Exia (plas	В		
 Coxid, 1.457/172* friClamp / max. 6 m Coxid, 1.457/172* friClamp / max. 6 m Can be ordered with segmented probe which must be specified in the text of the order. The length of a probe ection is 1 m. Plotting Plotting<td>C *</td><td></td><td></td>	C *		
6 Coaxial, 1.4571 / 27 TriGlamp / max. 6 m Coak or dered with segmented probe which must be specified in the text of the order. The length of a probe ettion is 1 m. Yousing 1 - 7 Painted aluminum 9 Stainless steel Yoube length / Material 1 - 1 - 1 - 1 - 1 - 1 - 1 - 7 Painted aluminum 9 Stainless steel Yobe length / Material - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - <t< td=""><td>H *</td><td>,</td><td></td></t<>	H *	,	
Can be ordered with segmented probe which must be specified in the text of the order. The length of a probe calculate in the content of the order. The length of a probe calculate in the content of the order. The length of a probe calculate in the content of the order. The length of a probe calculate in the content of the order. The length of a probe calculate in the content of the order. The length of a probe calculate in the content of the order. The length of a probe calculate in the content of the order of the order. The length of a probe calculate in the content of the order. The length of a probe calculate in the content of the order. The length of a probe calculate in the content of the order of the order of the order. The length of a probe calculate in the content of the order of			
<pre>section is 1m. Housing T Following Follow</pre>	-		
Housing Painted aluminum * Underglass-reinforced plastic (PBT) (Exversion not available) Stainless steel Probe length / Material Image: Comparison of the co		ted probe which must be specified in the text of the order. The length of a probe	
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7 Painted aluminum 8 Fiberglass-refinenced plastic (PBT) (Exversion not available) 9 Stainless steel Probe length / Material Image: Comparison of the comparison	Housing		==== ÷
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<pre>n n 106.0 m (each 0.1 m), for segmented mono rod / 14571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 106.0 m (each 0.1 m), for segmented coaxial / 1.4571 n n 20 m (for the text part of the order Available on request (see relevant page for details) S A P - 3 0 0 - 0 Graphic plug-in display module S A T - 5 0 4 - MART=-USB/Bluetooth* modem S A T - 5 0 4 - MART=-USB/Bluetooth* modem Process connections (price information on request) -DIN and ANSI flanges -DN40 Pipe coupling (DIN 11851) Process seal material (factory default: FPM) -FPM -FPM -FPM -FPM -FPM -FPM -FPM -FPM</pre>	n n		
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H□C / H□H–700 / 800 with segmented probe



Capacitive Level Transmitters

NIVOCAP 2-wire capacitive level transmitters are an ideal solution for level measurement of conductive and non-conductive liquids. The device's probe and the reference probe (which can be either the metal wall of the tank or a separate probe) operate as opposing plates of a capacitor. Between the plates of this capacitor, the air is replaced by a medium with a higher dielectric constant, changing the capacitance proportionally to the material's level. The incorporated electronic circuitry measures the capacitance difference and converts it to an output signal.

FEATURES

- Maximum 20 m measuring range
- Vertical mounting
- Rod or cable probe versions
- -30...+200 °C process temperature
- Up to 40 bar process pressure
- 32-point linearization table
- Indirect assignment of 0% and 100%
- IP67
- 4...20 mA + HART[®] output
- PACTware™ compatible
- Ex version
- 5 years warranty

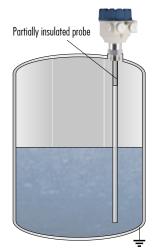
CERTIFICATES

ATEX (Ex ia G)



SAP-202 display

ARRANGEMENTS

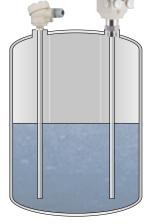


Rod probe Metal tank and non-conductive medium. The rod probe is partially insulated at the process connection.



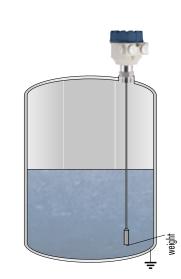
CHR-200

Rod probe With coaxial tube reference probe



CFR-100

Rod probe With reference rod probe



Cable probe with weight Metal tank

ООО "РусАвтоматизация"

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APPLICATIONS

- Level and volume measurement
- Level measurement of conductive and non-conductive materials
- Level measurement of liquids
- For high pressures and high-temperature mediums





CAF-110

