

NIVOPRESS N submersible hydrostatic level transmitters are designed to measure the level of clean and contaminated liquids. The pressure sensor at the end of the probe measures the sum of the hydrostatic pressure (P_{hyd}) of the liquid column above and the atmospheric pressure (P_{am}). Atmospheric pressure is channeled to the sensor through a breathing capillary equipped with a moisture filter that prevents moisture from damaging the electronics. The atmospheric pressure is subtracted from the overall measured pressure to get the hydrostatic pressure, which is proportional to the height of the liquid column (h), then the sensor's signal is converted into an output signal. If both the level and the temperature of the liquid needs to be measured, a combined (level & temperature) transmitters are available. There is a wide variety of accessories for the transmitters.

The new NBB-400 separated head unit versions are particularly ideal for marine applications such as ships and floating docks. The separated head design allows for quick sensor replacement without the need for complex wiring disassembly, minimizing downtime and technical maintenance.

A sewage adapter operating on the diving bell principle can be snapped into the protective cap's place to avoid direct contact between the sensor and the measured contaminated liquid. A mechanical filter is built into NZ type transmitters as a measure of extra protection. N-500 devices can be used in hazardous environments. NZ screw-in type transmitters are recommended for applications where there is a risk of flooding. NB/NG plastic housing types, are designed for those applications where aggressive mediums (e.g., saline solutions or seawater) may corrode stainless steel.

FEATURES

- Measuring range up to 350 m
- Remotely programmable
- IP68
- Submersible or screw-in versions
- Ø22 / Ø24 mm tube
- HART® communication
- PACTware™ compatible
- 2 or 3-wire versions
- Ex versions
- 2× 4...20 mA output (level + temperature)
- Built-in Pt100 temperature sensor
- Overvoltage and inverse polarity protection
- Wide range of accessories
- Detachable variants
- Approved for potable water
- Available with capacitance ceramic, piezorezistive stainless steel or ceramic sensor
- 5 years warranty







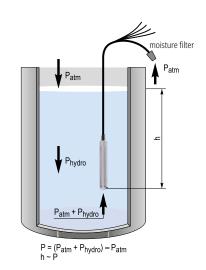
Submersible Hydrostatic Level Transmitters

APPLICATIONS

- Level and temperature measurement of potable water wells, tanks, pools
- Submersible pump control
- Screw-in submersible version with IP68 protection for applications with risk of flooding
- Clean or slightly polluted, contaminated liquids
- Sewage
- Draw-down protection
- Sewage lift station control
- Saline solutions, seawater

CERTIFICATES

- ATEX (Ex ia G)
- UKCA Ex (Ex ia G)
- Bureau Veritas (BV) (pending)



TECHNICAL DATA

		2-wire			3-wire	
		NB, NG	NK, NN, ND, NH	NC, NT	NP, NF, NZ, NR	NPH, NFH, NZH, NRH
	Principle	Pi	iezoresistive	Capacitive	Pie	zoresistive
Sensor	Material		Ceramic		Sta	inless steel
Housing		Plastic		Sto	inless steel	
Acasuri	ng range ⁽¹⁾	0.	200 mH ₂ O	020 mH ₂ O	0350 mH ₂ O	0200 mH ₂ O
vieusuri	ng range	As per ord	ler code; current output can be	customized within 2	130% pressure range; r	emotely programmable
Overloa versus r	d allowed ange)		$(\le 20 \text{ mH}_2\text{O})$ $(> 20 \text{ mH}_2\text{O})$	$20 \times (\le 3 \text{ mH}_2\text{O})$ $10 \times (> 3 \text{ mH}_2\text{O})$		3×
Dutput		42	10 mA + HART®	420 mA	420 mA + HART®	010 V (0 V ≤ 80 mV) measured to the negativ supply voltage
Supply v	voltage		1230 V	DC DC		1830 V DC / 6 mA
empero	vturo.	NPD, NFD, NZD, NF	RD types: 2-wire 420 mA outp acc.: ±3		230 V DC); 0+60 °C,	
neasure		N□P types: 4-wire Pt100 "B" temperature sensor; Other types with HART® output: temperature can be queried as HART® Secondary Value, acc.: ±3 °C				
inearity	error (level)		±0.45%		±0.25%	
emperc	ature error	≤ ±0.1% / 10 K		$\leq \pm 0.2\%$ / 10 K		
rocess'	temperature ⁽²⁾	–30+60 °C, for FEP cable devices, where the output code is N $□$ K or N $□$ P: –40+80 °C				
rocess'	connection	NAA-209 cable mounting wedge clamp, NZ, NR, ND, NH types: ¾" BSP thread				
ngress (orotection	IP68				
lectrico	l protection	Class III				
lectrico	I connection	Shielded cable with breathing capillary				
Cable				Ø7 mm; 0.34 m	nm²	
Cable le	ength ⁽³⁾		0300 m		0	450 m
Dimensions		Ø24 × 212 mm	NK, NN: Ø22 × 173 mm ND, NH: Ø38 × 174 mm	Ø40 × 146 mm	. ,	Ø22 × 173 mm Ø38 × 174 mm
Weight		Probe: 200 g	NK, NN: Probe: 200 g ND, NH: Probe: 300 g	Probe: 0.4 kg	•	: Probe: 200 g :: Probe: 300 g
Material of wetted parts	Sensor		Al_2O_3		1.4404 (316L) or (1.45	571 [316Ti] and 1.4435 [316L
	Housing	POM		1.4	571 (316Ti)	
	Cable coating	Polyurethane (PUR) or FEP				
	Seals	Viton® (FKM)				
	Protective cap	POM	1.4571 (316Ti)	-	1.4	571 (316Ti)

 $^{^{(1)}\,\}text{mH}_2\text{O}$ means: 1 metre of water column,1 mH $_2\text{O}\sim\!0.1$ bar

⁽³⁾ As order code.

 $^{^{(2)}}$ High-temperature (+75 °C) variant on request.

Ex INFORMATION

	NP□ / NF□ / NZ□ / NR□ / NK□ / NN□ / ND□ / NH□-5□□-□ Ex
Protection	Intrinsic safety
Ex marking	Up to 100 m cable length: 🗟 II 1G Ex ia IIC Tó Ga, between 100 m and 300 m cable length: 🗟 II 1G Ex ia IIB Tó Ga
Intrinsic safety data	$U_i = 30$ V, $I_i = 100$ mA, $P_i = 0.8$ W for IIC gas group: $C_i \le 52$ nF, $L_i \le 1.4$ mH (calculated with 100 m integrated cable), for IIB gas group: $C_i \le 132$ nF, $L_i \le 1.6$ mH
Supply voltage	1430 V DC
Operation temperature range	−30+60 °C

TECHNICAL PROPERTIES OF ACCESSORIES

NAA–101 – Cable terminal box				
Dimensions	93 × 93 × 55 mm			
Ingress protection	IP65			
Process temperature range	−40+70 °C			
Material	Polystyrene			
Cable gland	M20×1.5 (cable outer diameter: Ø5Ø10 mm)			
Electrical connection	Terminal block (for max. 2.5 mm² wire cross section)			
NAA-102 -	Cable terminal box with overvoltage protection			
Data	See NAA-101			
Electrical Properties	See OVP			

NAA–209 – Cable mounting wedge clamp			
Max. mechanical load	300 m cable		
Material	Polyamide, stainless steel wedge clamp		
Process temperature range	-20 + 60 °C		
	Overvoltage protection		
	OVP-22 / -33 ⁽¹⁾	OVP-32 / -33 ⁽¹⁾	
Version	Field use	Rail-mountable (EN 60715)	
Dimensions	$72 \times 42 \times 19 \text{ mm}$	62 × 65 × 18 mm	
Ingress protection	IP54	IP20	
Breakdown voltage	33 V		
Absorbed energy	600 W / 1 ms		
Serial resistance	13 Ω		
Leakage current	≤ 10 µA		
(1) Annihantin anti-faranza 2in			

 $^{^{(1)}}$ Applicable only for one 2-wire 4...20 mA (HART $\!\!^{(\!n\!)}$) device!



NAA-101 / NAA-102 cable terminal box



NAA-209 cable mounting unit



NAA-105 cable-holding sliding sleeve

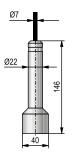


OVP-32 / 33 Overvoltage Protection Unit



OVP-22 / 33 Overvoltage Protection Unit

NIVOPRESS N-200 v	with capacitive ceramic sensor	5 years
	tic level transmitter for liquids or; humidity filter: fixed to breathing cable	
Type / Cable material		
N □ ■ - 2 ■ ■ - ■		
С	Capacitive ceramic sensor / PUR	
T	Capacitive ceramic sensor / FEP	
Output		
N		
K	2-wire, 420 mA output	
P	Level: 420 mA + Temperature: Pt100 sensor	
Version		
N		
2	Standard	
Range		
N		
1	01 mH2O (0100 mbar)	
2	02 mH2O (0200 mbar)	
3	05 mH2O (0500 mbar)	
4	010 mH2O (01000 mbar)	
5	020 mH2O (02000 mbar)	
Breathing cable length		
N 2		
PUR cable		
n n	199 m; sold by the meter	
0 0	100190 m; sold by the meter	
рр	200290 m; sold by the meter	
r r	300390 m; sold by the meter	
s s FEP cable	400450 m; sold by the meter	
n n	199 m; each started 1 m	
0 0	100190 m; each started 1 m	
рр	200290 m; each started 1 m	
rr	300390 m; sold by the meter	
s s	400450 m; sold by the meter	
nn = 0199 : 199 m oo = A0A9 : 100190 m pp = B0B9 : 200290 m rr = C0C9 : 300390 m ss = D0D5 : 400450 m		
Available on request (m	ust be specified in the text of the order)	
High-temperature (up to +75 Custom 420 mA output cali	°C) version	

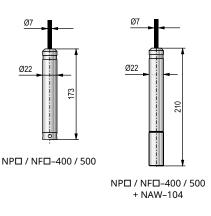


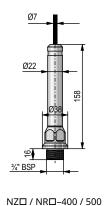
NC□ / NT□-200

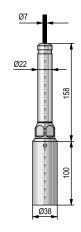
High temperature (up to +75 °C) version (Ex version not available)

Custom 4...20 mA output calibration

NIVOPRESS N-400 stainless steel sensor 5 years 2 or 3-wire submersible hydrostatic level transmitter for liquids with stainless steel piezoresistive sensor; humidity filter: fixed to breathing cable N 🗆 🗷 – 🔳 🗷 – 🔳 Piezoresistive stainless steel sensor / PUR P Piezoresistive stainless steel sensor / FEP F Z Piezoresistive stainless steel sensor, 3/4" BSP process connection / PUR Piezoresistive stainless steel sensor, ¾" BSP process connection / FEP R N 🔲 🗆 🕳 🕳 🗕 2-wire, 4...20 mA + HART K 3-wire, 0...10 V DC output (up to 200 mH2O) Н Level: 4...20 mA + HART + Temperature: 4...20 mA (electronic temp. sensor) D Level: 4...20 mA + HART + Temperature: Pt100 sensor P * Ex version not available Standard 4 5 Ex ia G Range 0...1 mH2O (0...100 mbar) 1 0...2 mH2O (0...200 mbar) 2 0...5 mH2O (0...500 mbar) 3 0...10 mH2O (0...1000 mbar) 4 5 0...20 mH2O (0...2000 mbar) 0...50 mH2O (0...5000 mbar) 6 0...100 mH2O (0...10000 mbar) 7 0...200 mH2O (0...20000 mbar) 8 0...350 mH2O (0...35000 mbar) 9 N ... - PUR cable 1...99 m; sold by the meter n 100...190 m; sold by the meter 0 0 200...290 m; sold by the meter р 300...390 m; sold by the meter 400...450 m; sold by the meter s s FEP cable 1...99 m; sold by the meter n n 100...190 m; sold by the meter 0 0 200...290 m; sold by the meter р р 300...390 m; sold by the meter r 400...450 m; sold by the meter nn = 01...99 : 1...99 m oo = A0...A9 : 100...190 m pp = B0...B9 : 200...290 m rr = C0...C9 : 300...390 m ss = D0...D5 : 400...450 m

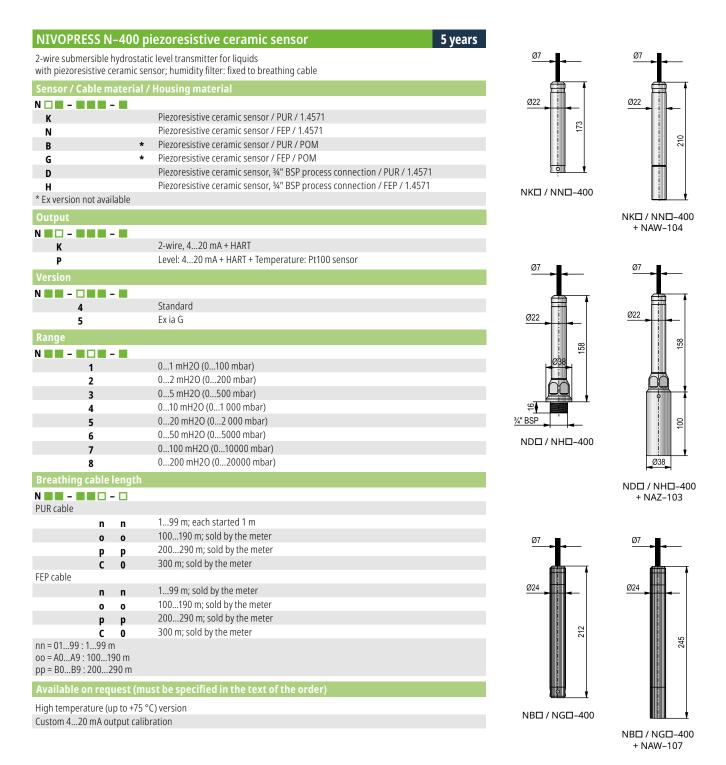






NZ□ / NR□-400 / 500 + NAZ-103





NIV24		
NPK-431-0		
NPK-441-0		

NIVOPRESS N-400 separated head unit

5 years

2-wire submersible hydrostatic level transmitter for liquids with piezoresistive ceramic sensor; separated head unit				
Sensor / Housing materi	al			
N □ B - ■ ■ 0 - 0				
В	Piezoresistive ceramic sensor / POM			
Output / Version				
N B 🗆 - 🔳 🗷 0 - 0				
В	2-wire, 420 mA + HART			
Version				
N B B - □■ 0 - 0				
4	Standard			
5 *	Ex ia G			
* Under development				
Range				
N B B - ■□ 0 - 0				
1	01 mH2O (0100 mbar)			
2	02 mH2O (0200 mbar)			
3	05 mH2O (0500 mbar)			
4	010 mH2O (01 000 mbar)			
5	020 mH2O (02 000 mbar)			
6	050 mH2O (05000 mbar)			
7	0100 mH2O (010000 mbar)			

Ø34 217 Ø30

NBB-□□0

Available on request (must be specified in the text of the order)

0...200 mH2O (0...20000 mbar)

High temperature (up to +75 °C) version Custom 4...20 mA output calibration

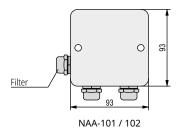
NIVOPRESS N-400 Detachable cable set

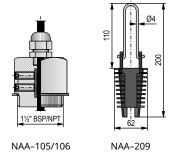
Detachable cable set for 2-wire submersible hydrostatic level transmitter with connector; with humidity filter: fixed to breathing cable

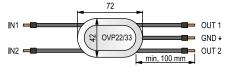
Cable material		
N A 🗆 - 4 0 🔳 -	-	
В		PUR
G		FEP
Cable length		
N A 🔳 – 4 0 🔲 -	- 🗆	
PUR cable		
n	n	199 m; sold by the meter
0	0	100190 m; sold by the meter
P	P	200290 m; sold by the meter
r	r	300390 m; sold by the meter
S	s	400450 m; sold by the meter
FEP cable		
n	n	199 m; sold by the meter
0	0	100190 m; sold by the meter
р	р	200290 m; sold by the meter
r	r	300390 m; sold by the meter
S	S	400450 m; sold by the meter
nn = 0199 : 199 n oo = A0A9 : 1001 pp = B0B9 : 2002 rr = C0C9 : 30039 ss = D0D5 : 4004	90 m 290 m 90 m	

Accessories NIVOPRESS N

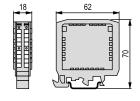
Terminal boxes and cable mounting units N A A - 1 0	NIVOPRESS N acces	sories (sold separately)	5 years
1 Terminal box with filter without OVP 2 Terminal box with filter with OVP-12/33 (only for N_K versions) 5 Sliding sleeve 1½" BSP 6 Sliding sleeve 1½" NPT N A A - 2 0 9 - 0 Cable mounting wedge clamp Overvoltage protection units O V P - □ 2 S - L 2 OVP-22/33, outdoor, IP54 3 OVP-32/33, IP20, DIN rail mounting Sewage adapters N A W - 1 0 □ - 0 4 Can be mounted in the place of the protective cap / 1.4571 7 Can be mounted in the place of the protective cap / POM (applicable when there is no risk of tilting) N A Z - 1 0 3 - 0 Sewage adapter (for ¾" threaded process connection) / 1.4571 Detachable sensor accessories N A S - 1 0 □ - 0 0 Separating ring 1 Protective cap for sensor head 2 Protective cap for cable set Adapters E A A - 1 5 3 - 0 ¾" BSP / ½" BSP (1.4571) E A A - 1 5 7 - 0 ¾" BSP / 1" BSP (1.4571) E A A - 1 5 8 - 0 ¾" BSP / 1" BSP (1.4571) E A A - 1 5 9 - 0 ¾" BSP / 1" BSP (1.4571) Accessories (sold separately; see relevant page for details) NAA-102-0M-100-00 Breathing cable gland S A T - 5 0 4 - ■ HART®-USB/Bluetooth® modem	Terminal boxes and cabl	le mounting units	
2 Terminal box with filter with OVP-12/33 (only for N_K versions) 5 Sliding sleeve 1½" BSP 6 Sliding sleeve 1½" NPT N A A - 2 0 9 - 0 Cable mounting wedge clamp Overvoltage protection units O V P - □ 2 S - L 2 OVP-22/33, outdoor, IP54 3 OVP-32/33, IP20, DIN rail mounting Sewage adapters N A W - 1 0 □ - 0 4 Can be mounted in the place of the protective cap / 1.4571 7 Can be mounted in the place of the protective cap / POM (applicable when there is no risk of tilting) N A Z - 1 0 3 - 0 Sewage adapter (for ¾" threaded process connection) / 1.4571 Detachable sensor accessories N A S - 1 0 □ - 0 0 Separating ring 1 Protective cap for sensor head 2 Protective cap for cable set Adapters E A A - 1 5 3 - 0 ¾" BSP / ½" BSP (1.4571) E A A - 1 5 7 - 0 ¾" BSP / 1" BSP (1.4571) E A A - 1 5 9 - 0 ¾" BSP / 1" BSP (1.4571) E A A - 1 5 9 - 0 ¾" BSP / 1" BSP (1.4571) Accessories (sold separately; see relevant page for details) NAA-102-0M-100-00 Breathing cable gland S A T - 5 0 4 - ■ HART®-USB/Bluetooth® modem	N A A - 1 0 🗆 - 0		
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Overvoltage protection units O V P - 2 S - L 2 OVP-22/33, outdoor, IP54 3 OVP-32/33, IP20, DIN rail mounting Sewage adapters N A W - 1 O - O 4 Can be mounted in the place of the protective cap / 1.4571 7 Can be mounted in the place of the protective cap / POM (applicable when there is no risk of tilting) N A Z - 1 O 3 - O Sewage adapter (for ¾" threaded process connection) / 1.4571 Detachable sensor accessories N A S - 1 O - O O Separating ring 1 Protective cap for sensor head 2 Protective cap for cable set Adapters E A A - 1 5 3 - O ¾" BSP / ½" BSP (1.4571) E A A - 1 5 5 8 - O ¾" BSP / 1" BSP (1.4571) E A A - 1 5 9 - O ¾" BSP / 1" BSP (1.4571) Accessories (sold separately; see relevant page for details) NAA-102-0M-100-00 Breathing cable gland S A T - 5 O 4 - HART®-USB/Bluetooth® modem	6		
O V P − □ 2 S − L	N A A - 2 0 9 - 0	Cable mounting wedge clamp	
2 OVP-22/33, outdoor, IP54 3 OVP-32/33, IP20, DIN rail mounting Sewage adapters N A W - 1 0	Overvoltage protection	units	
Sewage adapters N A W - 1 0	0 V P - 🗆 2 S - L		
Sewage adapters N A W - 1 0	_		
N A W - 1 0	3	OVP-32/33, IP20, DIN rail mounting	
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Can be mounted in the place of the protective cap / POM (applicable when there is no risk of tilting) N A Z - 1 0 3 - 0 Sewage adapter (for ¾" threaded process connection) / 1.4571 Detachable sensor accessories N A S - 1 0 □ - 0	N A W - 1 0 🗆 - 0		
no risk of tilting) N A Z - 1 0 3 - 0 Sewage adapter (for ¾" threaded process connection) / 1.4571 Detachable sensor accessories N A S - 1 0 □ - 0	4		
Detachable sensor accessories N A S - 1 0	7		there is
N A S - 1 0	N A Z - 1 0 3 - 0	Sewage adapter (for ¾" threaded process connection) / 1.4571	
O Separating ring 1 Protective cap for sensor head 2 Protective cap for cable set Adapters E A A - 1 5 3 - 0 ¾" BSP / ½" BSP (1.4571) E A A - 1 5 7 - 0 ¾" BSP / M20x1.5 (1.4571) E A A - 1 5 8 - 0 ¾" BSP / 1" BSP (1.4571) E A A - 1 5 9 - 0 ¾" BSP / 1" NPT (1.4571) Accessories (sold separately; see relevant page for details) NAA-102-0M-100-00 Breathing cable gland S A T - 5 0 4 - ■ HART®-USB/Bluetooth® modem	Detachable sensor acces	ssories	
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2 Protective cap for cable set Adapters E A A - 1 5 3 - 0	0		
Adapters E A A - 1 5 3 - 0	-		
E A A - 1 5 3 - 0 3/4" BSP / 1/2" BSP (1.4571) E A A - 1 5 7 - 0 3/4" BSP / M20x1.5 (1.4571) E A A - 1 5 8 - 0 3/4" BSP / 1" BSP (1.4571) E A A - 1 5 9 - 0 3/4" BSP / 1" NPT (1.4571) Accessories (sold separately; see relevant page for details) NAA-102-0M-100-00 Breathing cable gland S A T - 5 0 4 - HART®-USB/Bluetooth® modem	2	Protective cap for cable set	
E A A - 1 5 7 - 0	Adapters		
E A A - 1 5 7 - 0 34" BSP / M20x1.5 (1.4571) E A A - 1 5 8 - 0 34" BSP / 1" BSP (1.4571) E A A - 1 5 9 - 0 34" BSP / 1" NPT (1.4571) Accessories (sold separately; see relevant page for details) NAA-102-0M-100-00 Breathing cable gland S A T - 5 0 4 - HART®-USB/Bluetooth® modem	E A A - 1 5 3 - 0	34" BSP / 1⁄2" BSP (1.4571)	
E A A - 1 5 9 - 0 ¾"BSP / 1" NPT (1.4571) Accessories (sold separately; see relevant page for details) NAA-102-0M-100-00 Breathing cable gland S A T - 5 0 4 - HART®-USB/Bluetooth® modem		¾" BSP / M20x1.5 (1.4571)	
Accessories (sold separately; see relevant page for details) NAA-102-0M-100-00 Breathing cable gland S A T - 5 0 4 - HART®-USB/Bluetooth® modem	E A A - 1 5 8 - 0	¾" BSP / 1" BSP (1.4571)	
NAA-102-0M-100-00 Breathing cable gland S A T - 5 0 4 - ■ HART®-USB/Bluetooth® modem	E A A - 1 5 9 - 0	³ / ₄ " BSP / 1" NPT (1.4571)	
S A T - 5 0 4 - HART®-USB/Bluetooth® modem	Accessories (sold separa	ately; see relevant page for details)	
	NAA-102-0M-100-00	Breathing cable gland	
CAV 20 E HAPT®-JISR/RSA85 modem	S A T - 5 0 4 -	HART®-USB/Bluetooth® modem	
3 A K - 3 U 3 -	S A K - 3 0 5 -	HART®-USB/RS485 modem	







OVP-22 / 33



OVP-32 / 33

NIV24	
NAA-209-0	
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