



2-wire

NIVOPRESS

HYDROSTATIC LEVEL TRANSMITTER



OUR PROFESSION IS YOUR LEVEL

GENERAL

The NIVOPRESS NT-100 is a two wire, microprocessor controlled level transmitter/indicator which measures the pressure difference between the hydrostatic pressure of the liquid head above the sensor and the actual atmospheric pressure prevailing on the two sides of a ceramic sensing element. The changes in pressure are converted into a 4–20 mA output signal. The use of a ceramic capacitance principle sensor results in a stable measurement with great accuracy, better than 0.2%.

On-site scaling of the analogue output is done by simple push-button programming. A programmable damping helps to overcome output fluctuations caused by surface turbulence and fast level fluctuation.

APPLICATION

The NIVOPRESS NT hydrostatic level transmitter/indicator provides a simple and highly reliable solution for the continuous monitoring of liquid levels and liquid masses. Its robust design, high overload capability, and wide temperature range make the application of the NIVOPRESS NT possible on a large scale from the food up to heavy industry. Installation and adjustment are very simple and easy.

ORDER CODE

NIVOPRESS N		- 1 -	
MECHANICAL DESIGN	CODE	RANGE	CODE
Transmitter	T	0 – 0.1 bar (max. 4 bar)	1
Transmitter / indicator	B	0 – 0.2 bar (max. 6 bar)	2
		0 – 0.4 bar (max. 6 bar)	3
		0 – 1 bar (max. 10 bar)	4
		0 – 2 bar (max. 18 bar)	5
		0 – 4 bar (max. 25 bar)	6
		0 – 10 bar (max. 40 bar)	7
		0 – 20 bar (max. 40 bar)	8
PROCESS CONNECTION	CODE	SUPPLY VOLTAGE / EX	CODE
BSP 1 1/2"	C	12 – 30 V DC	4
NPT 1 1/2"	N	12 – 30 V DC / Ex*	8
2" TRICLAMP (ISO 2852)	R		
DN 40, pipe coupling DIN11851	V		
DN 50, pipe coupling DIN11851	W		
SEAL	CODE		
FPM / Viton	1		
EPDM	2		

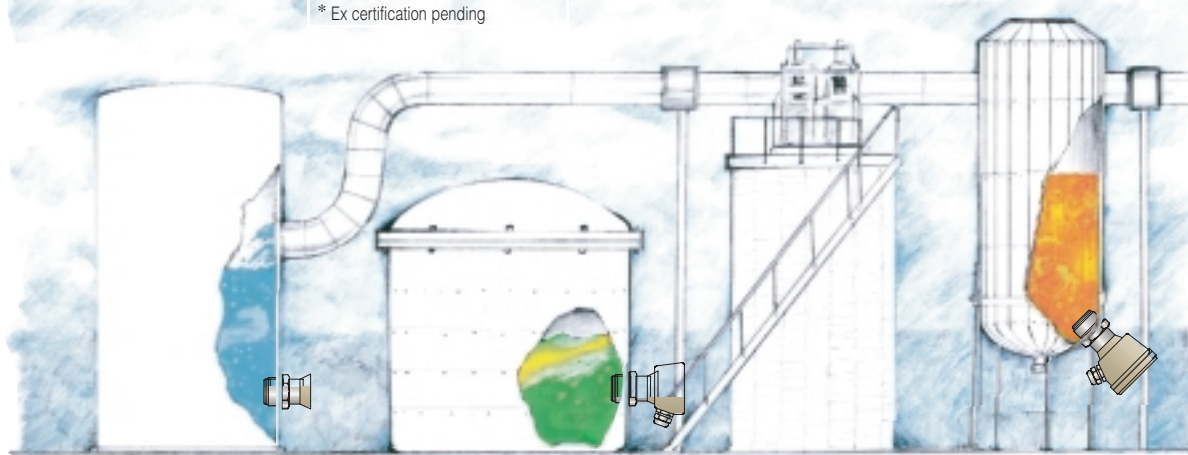
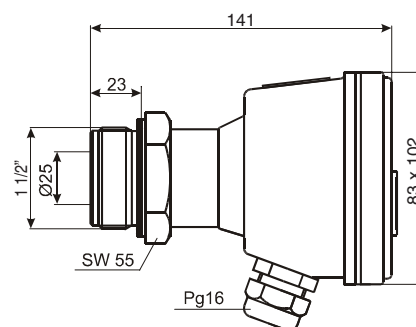
* Ex certification pending

TECHNICAL DATA

TYPE	TRANSMITTER	TRANSMITTER INDICATOR
Mechanical design		
Ranges	In accordance with the order codes	
Zero adjustment	+20%	
Turn down	1 : 4	
Overload capability	In accordance with the order codes	
Damping time	0 ... 10 sec	
Output	4–20 mA	
Display	n. a.	4 digit LCD adjustable: –4090...+4090
Accuracy (F.S.O.)	≤ 0,2%	
Temperature coefficient	x < 0.05% /10K	
Long term stability	≤ 0.15% / year	
Operating voltage	12–30 V DC	
Maximum load resistance	$R \leq \frac{U_T - 12V}{0.02 A}$ Ohm	
Protection	IP 65	
Ex certification*	EEx ia II C T4...T6	
Medium temperature	–30°C to +100°C	
Ambient temperature	–30°C to +70°C	
Material probe	Stainless steel	
Diaphragm	ceramic Al_2O_3	
Diaphragm Seal	EPDM / Viton	
Weight	1.25 kg	

* Ex certification pending

DIMENSIONS



Technical specification may be changed without notice

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