

# NOHKEN **HD320-NOK** ULTRASONIC LEVEL METER CE

## Products Overview

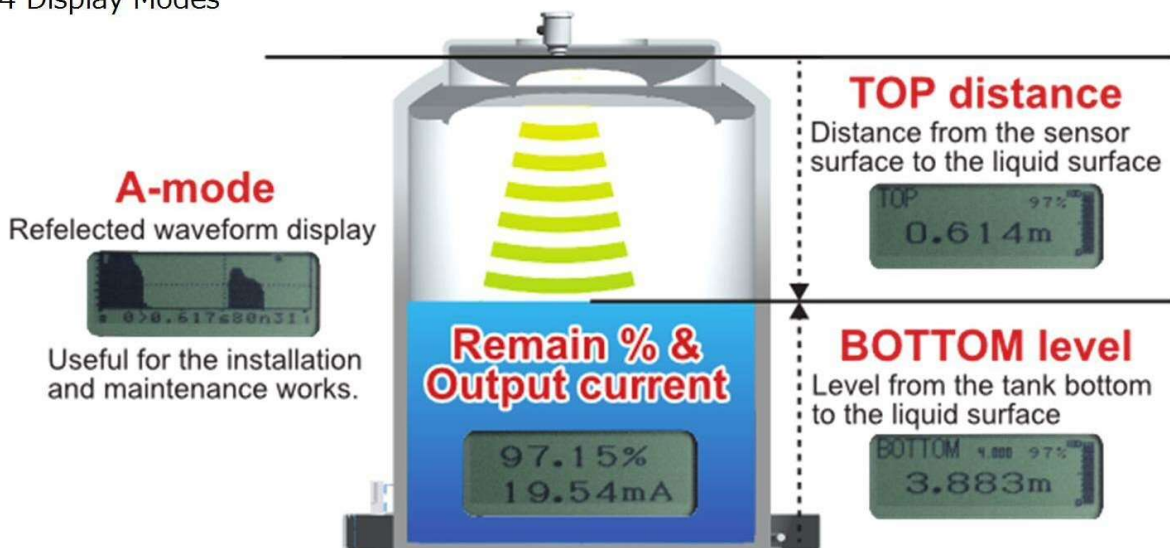
HD320-NOK is a 2-wire loop powered integrated non-contact ultrasonic level meter for level and flow monitoring of liquids in storage tank, simple process tanks and open channel.

The reliable of the level data is based on digitalized signal processing algorithms which is called enhanced DSP and enable mask function,

4 display modes, easy programing and open channel flow calculation. HD320-NOK incorporates an internal temperature sensor to compensate for temperature changes.

## Features

- Compact & Light Weight (350 g) enable easy installation and maintenance
- Local user interface with four-button programming, menu-driven parameters
- Masking function eliminates unnecessary echoes caused by obstructive objects
- 4 Display Modes



- Open Channel Flow calculation software is equipped (triangular-notch weir, rectangular weir & Parshall-flume; display integrating flow and output instantaneous flow)

## Specifications

Model	HD320-NOK
Dimensions	
Measurement object	Liquid, Slurry
Ultrasonic frequency	50 kHz
Measurement range	0.25 to 7.5 m
Beam angle	14 ° (-6dB) / 10 ° (-3dB)
Power source	21.6 to 26.4 V DC
Max. power consumption	0.6 W
Measurement accuracy	± 0.25 % F.S.
Resolution	1 mm
Temperature compensation sensor	-20 to 70 °C, Accuracy: Within ± 2 °C
Output current	4 to 20 mA ± 0.02 mA DC
Display	Graphic LCD (128x48dot)
Setting	Key operation
Memory backup	EEPROM
Mounting	G2 Thread
Material of main unit	PP (Polypropylene)
Protection class	IP65 equivalent (Without lid: IP20 equivalent)
Ambient temperature	-20 to 70 °C (No freeze and dew condensation)
Ambient humidity	Max. 80 % (at 31 °C)
Storage temperature	-30 to 80 °C (No freeze and dew condensation)
Standard	EN61326-1: 2013
Weight	350 g
Accessory	10 m cable 2 x 0.75mm <sup>2</sup> (with detachable waterproof connector)

## Applications

The ultrasonic level meter is available in PP(Polypropylene), making the transmitter suitable for use in wide variety of applications. HD320-NOK is ideal for level monitoring in the water and wastewater industry, chemical storage tanks, simple process tanks and open channel.

### ● Typical Applications

- Water and Waste Water Plant
- Level Monitor for Pond, Lake and River
- Open Channel Flow Measurement
- Level Control for river level
- Level monitor in chemical tank but no temperature & pressure change



## Note to Use

### Ideal installation



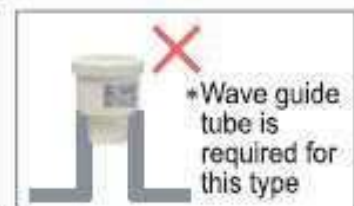
### Not Recommended



### Not Recommended

- 1) Close to side wall
- 2) Angled
- 3) Multiple sensors in a tank
- 4) Turbulence by charge/discharge of fluid or agitation
- 5) Bubble or Foam

\* Do not install the unit inside of a tube like below image



\* Do not use metal nut or metal flange. It may cause error on measurement.

\* Please use nut or flange that made of plastic.

NOHKEN INC.

Overseas Dept. Export sales section

15-32, Hiroshiba-cyo, Suita-city, Osaka, 564-0052, Japan

Tel:06-6386-8149 / Fax:06-6386-8307

E-mail:overseas.dept@nohken.co.jp

URL:<http://www.nohken.com>

