NivuMaster L-2

Non-contact ultrasonic level measurement.

The NivuMaster L-2 is compatible with any of the P-range ultrasonic sensors. With a working range from 0.125 m through to 40 m almost all eventualities are covered. All sensors are available with ATEX Zone 1 approval.
The L-2 standard version comes without keypad and display, being programmed using the accompanying PC software (RS232 via RJ12 input).
The NivuMaster L-2 is available also with an battery powered integrated data logger. Data are going to be saved in customised cycles. The battery life will increase depending on the settings.
Use the interface to read out saved data and save as .csv file.

The NivuMaster L-2 gives you the technology you need, but no complexity. Simple does not mean unsophisticated. The DATEM software that powers NivuMaster is the most advanced echo processing system in the world, so you can be confident that you have the best possible ultrasonic level solution for solids or liquids. An accompanying PC software includes full programming capability together with diagnostics and echo analysis functions.

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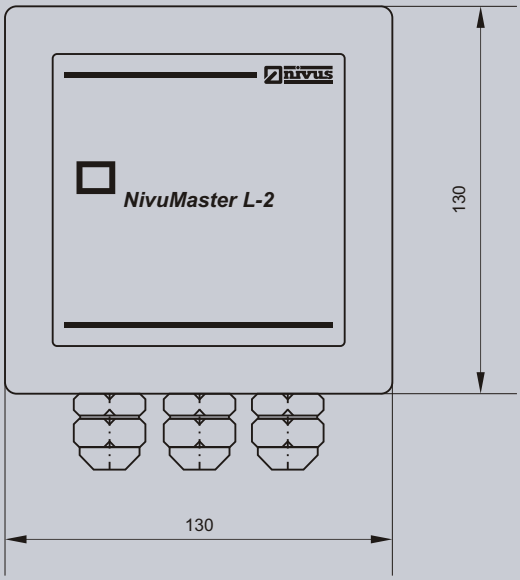
Specifications

Transmitter Enclosure



Dimensions in **mm**

Transmitter

NivuMaster L-2 device types	• without keypad and display • with keypad and display • without keypad and display with data logging function • without keypad and display with Modbus or Profibus:
Power supply	115 / 230 V AC ± 5 %, 50 / 60Hz, 10 - 28 V DC
Fuses	50 mA at 200 - 230 V AC 100 mA at 90 - 120 V AC
Power consumption at continuous operation	typically 5 W, max. 10 W
Echo processing	DATEM (Digital Adaptive Tracking of Echo Movement) software, passcode protected, non-volatile RAM
Inputs	• 1 ultrasonic sensor connected • at data logging function additionally 1 digital event input
Outputs	without keypad and display, with keypad and display: • digital output: RS232 interface full duplex • 0/4 to 20 mA galvanically isolated output (to 150 V), load 500 Ohm (adjustable), resolution 0.1 % • relay outputs: 2 SPDT (single pole double throw) 10 mA/12 V DC to 2 A/240 V AC at ohmic load without keypad and display with data logging function: • digital output: RS232 interface full duplex without keypad and display with Modbus or Profibus: • digital output: RS232 interface full duplex • RS485 interface • relay outputs: 2 SPDT (single pole double throw) 10 mA/12 V DC to 2 A/240 V AC at ohmic load
Temperatue range	electronics: -20 °C to +50 °C
Measurement uncertainty	0.25 % of measurement range or 6 mm (whichever is greater)
Resolution	0.1 % of measurement range or 2 mm (whichever is greater)
Measurement range	0.125 m to 40 m depending on sensor
Enclosure	130 x 130 x 60 mm (w x h x d)
Protection	IP66
Material	ABS base, with Polycarbonate lid, flammability rating UL94HB
Cable entries	3 x M20 cable glands for cable ø6 - 12 mm
Weight	approx. 1 kg

Sensors

Type	all P-Series sensors such as P-03, P-06, P-S6, P-10, P-15, P-25 and P-40

Accesssories

Interface cable (included)	for NM-Series and NivuCompact
Programming software (included)	each PC/Laptop requires a separate licence

You can find more information in the instruction manual or on **www.nivus.com**

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