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NivuCompact

NivuCompact

Ultrasonic compact echo sounder as 2- and 3-wire system for non-contact measurement of level, distance, empty space or volume. Parameters can be set directly on site without the need to open the enclosure.

The NivuCompact is an ultrasonic compact echo sounder for non-contact measurement of level, distance, empty space and volume. It can be used wherever reliable non-contact level measurement is required. Thanks to its very quick startup time of 4 seconds until value output, the NivuCompact is particularly suitable for battery-powered logger operation. The integrated display and the built-in keypad make programming extremely easy.

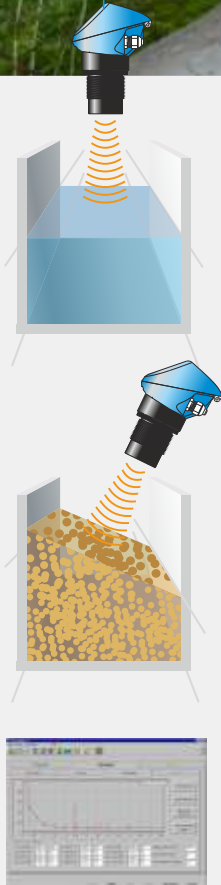
NivuCompact is available as 2-wire and 3-wire versions.

Typical applications:

- **Wastewater:** screening plants, flow control sections in stormwater treatment plants, volume measurements in vessels such as precipitants and similar, irrigation plants
- **Drinking water:** measurement of vessel filling levels, level measurements in tanks
- **Power generation:** cooling water circulation, hydropower plants
- **Industry:** liquid level measurements in tanks and containers

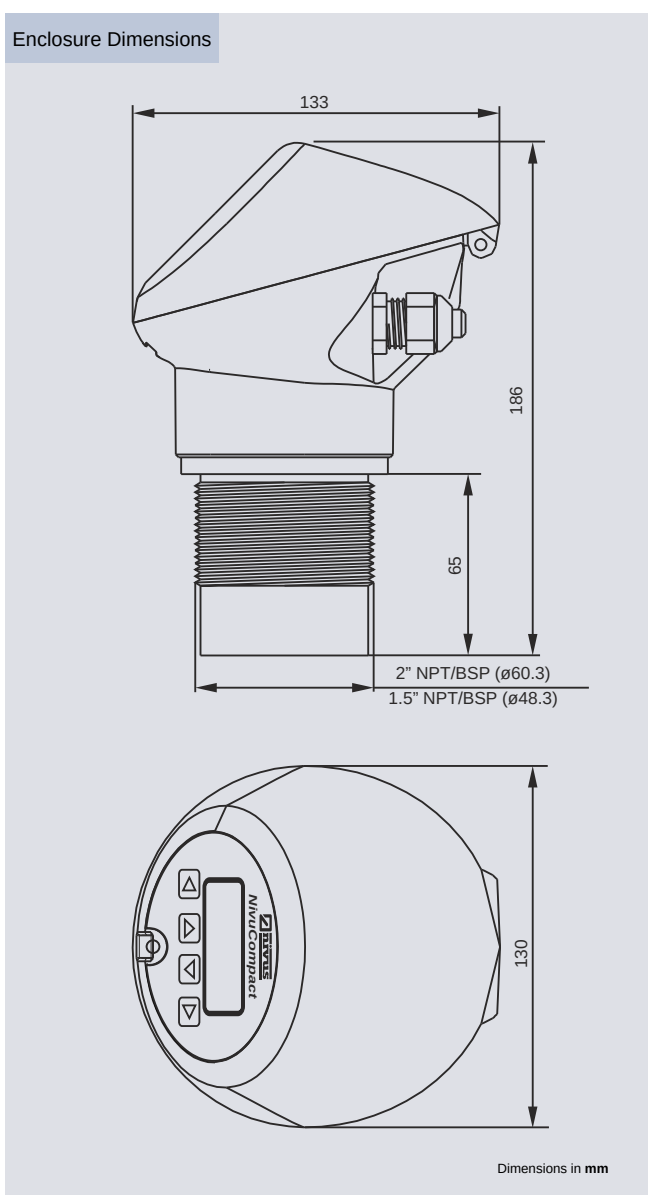


- Combi unit including sensor and transmitter
- Measuring ranges from 0.2 to 10 m
- Digital echo processing and linearisation
- Ideal for battery operation due to very quick startup and measuring times
- View echo profiles on PC
- Unit programming on site without opening the enclosure
- Integrated temperature compensation
- ATEX approval for Ex zone 1



Specifications

Sensor	
NivuCompact	compact echo sounder incl. programming software and inter- face cable (<i>not</i> for Ex versions)
Enclosure	- Weight: approx. 1 kg - Protection: IP65 2 cable glands 4.5 - 10 mm
Mounting	via BSP or NPT thread 1.5" (3 m/6 m versions) 2" (10 m versions)
Temperature	- Process: -40 °C to +80 °C - Ambient: -20 °C to +65 °C
Startup time	4 seconds until output
Beam angle (-3dB half power)	10°
Variants NivuCompact	3 / 6 / 10
Measurement range	3: 0.2 m - 3 m 6: 0.3 m - 6 m 10: 0.3 m - 10 m
Input voltage range	11 - 30 V (12 - 28 V for Ex)
Measurement uncertainty	±0.25 % or 6 mm (whichever is greater)
Resolution	0.1 % of measurement range or 2 mm (whichever is greater)
Output	4 - 20 mA, resolution 5 µA
Temperature compensation	via internal temperature sensor (±0.5 °C deviation)
Ex approval (optional)	only for 2-wire (without interface) II 1 G Ex ia IIC T4
The NivuCompact may be wired as either a 2-wire or 3-wire, giving the features below:	
2-wire configuration	RS232 (RJ12 port) connection for diagnostics and software updates, 4 digit LC display, 4 button keypad for parameter entry, power consumption: 3.5 - 22 mA, linearisation: integrated volume conversion f. various tank shapes
3-wire configuration	see 2-wire, with additional backlit LC display, 0 - 10 V analog output 2 relays single pole two way, 1 A, 30 VDC/AC; Power consumption: relays energised <60 mA relays de-energised <12 mA



Accessories

ZMS 120	fastening angle (230 mm) made of stainless steel for NivuCompact 10 with 2" thread distance wall - sensor centre: 185 mm
ZMS 121	fastening angle (525 mm) made of stainless steel for NivuCompact 10 with 2" thread distance wall - sensor centre: 332 mm and 480 mm
ZMS 123	fastening angle (850 mm) made of stainless steel for NivuCompact 3 and 6 with 1.5" thread, may be widened to 2" thread for NivuCompact 10; distance wall - sensor centre: 450 mm and 650 mm and 805 mm
ZMS 131	fastening angle (230 mm) made of stainless steel for NivuCompact 3 and 6 with 1.5" thread distance wall - sensor centre: 185 mm
Screw nut	PVC, 1.5" or 2" BSP/NPT thread
Reducer	PVC, 2" BSP/NPT outer thread to 1.5" BSP/NPT inner thread for NivuCompact
Interface cable	for NivuCompact
Surge arrestor	Type 9002/13-280-110-001 for NivuCompact Ex supply in zone 0 / 1 / 2
Cable	pre-configured, with plug for connection of NivuCompact to PCM Pro and PCM 4 level input

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