



- Startup time only 4 seconds
- Measurement range from 0.2 to 10 m
- Digital echo processing
- Linearisation
- View echo profiles on PC
- Simple menu navigation
- Integrated keypad
- Unit programming without opening the enclosure
- High acoustic power with narrow beam angles
- Temperature compensation as standard
- Ex approval (optional)

## NivuCompact

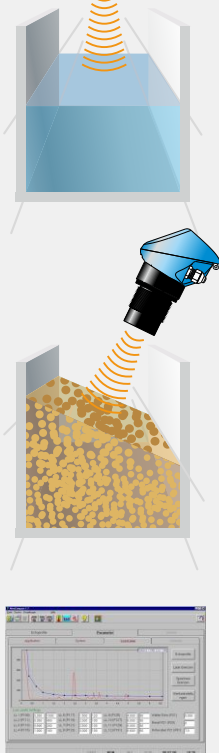
The NivuCompact is a compact echo sounder for non-contact ultrasonic measurement of level, distance, space or volume. NivuCompact can be used wherever reliable non-contact level measurement is required.

Thanks to its very quick startup time of 4 seconds until value output, the NivuCompact is particularly suitable for battery-powered logger operation. High transducer power and tight beam angle in addition with digital echo processing make the NivuCompact an ideal tool for many "difficult" applications. The integrated display makes programming extremely simple. NivuCompact can be completely configured using the integrated keypad alone with no need for a PC.

2 and 3-wire NivuCompact versions (depending on connection) are available.

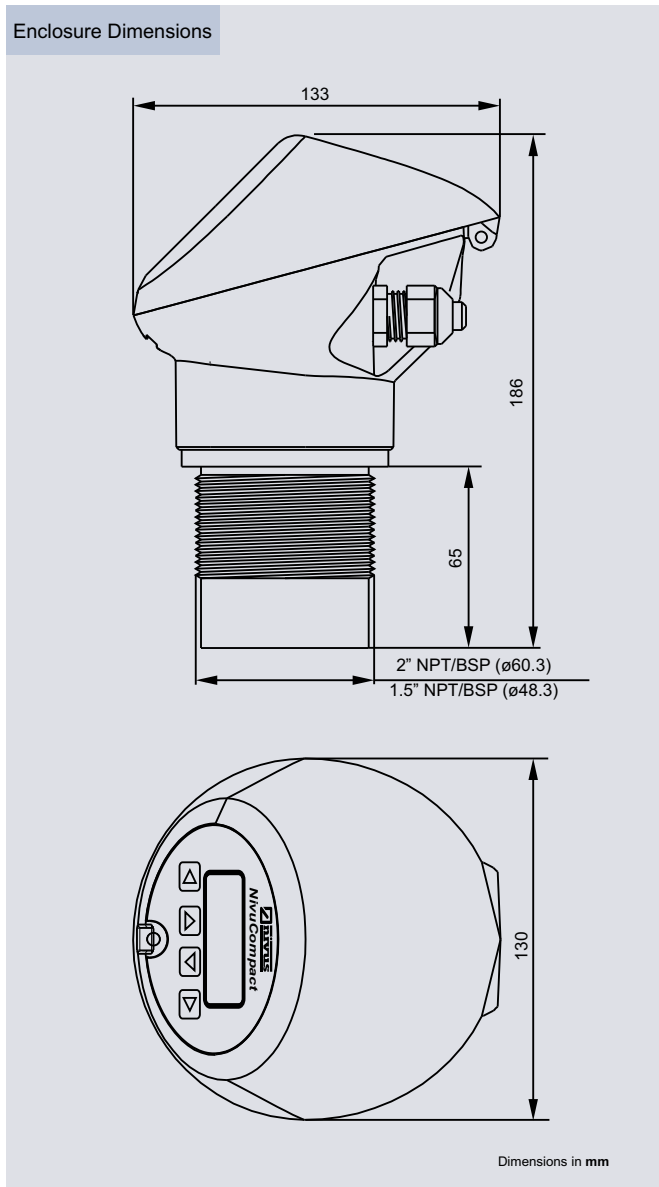
Software that extends NivuCompact's capabilities, allowing you to:

- Download, analyse and store echo profiles. A great way to see exactly what is happening in the application. Fine tuning for ultimate performance.
- Set-up NivuCompact. All programming parameters are instantly visible in the programming screens. Program the NivuCompact unit on a desktop before installation, or "clone" the device settings to save valuable time for applications e.g. in tank farms.



## Specifications

Sensor	
NivuCompact	compact echo sounder incl. programming software and interface cable ( <i>not</i> for Ex versions)
Enclosure	<ul style="list-style-type: none"> <li>• Weight: approx. 1 kg</li> <li>• Protection: IP67</li> <li>• 2 cable glands 4.5 - 10 mm</li> </ul>
Mounting	via BSP or NPT thread <ul style="list-style-type: none"> <li>• 1.5" (3 m/6 m versions)</li> <li>• 2" (10 m versions)</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>• Process: -40 °C to +80 °C</li> <li>• Ambient: -20 °C to +65 °C</li> </ul>
Startup time	4 seconds until output
Beam angle (-3dB half power)	10°
Variants NivuCompact	3 / 6 / 10
Measurement range	<ul style="list-style-type: none"> <li>• 3: 0.2 m - 3 m</li> <li>• 6: 0.3 m - 6 m</li> <li>• 10: 0.3 m - 10 m</li> </ul>
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

You can find more information in the instruction manual or on [www.nivus.com](http://www.nivus.com)