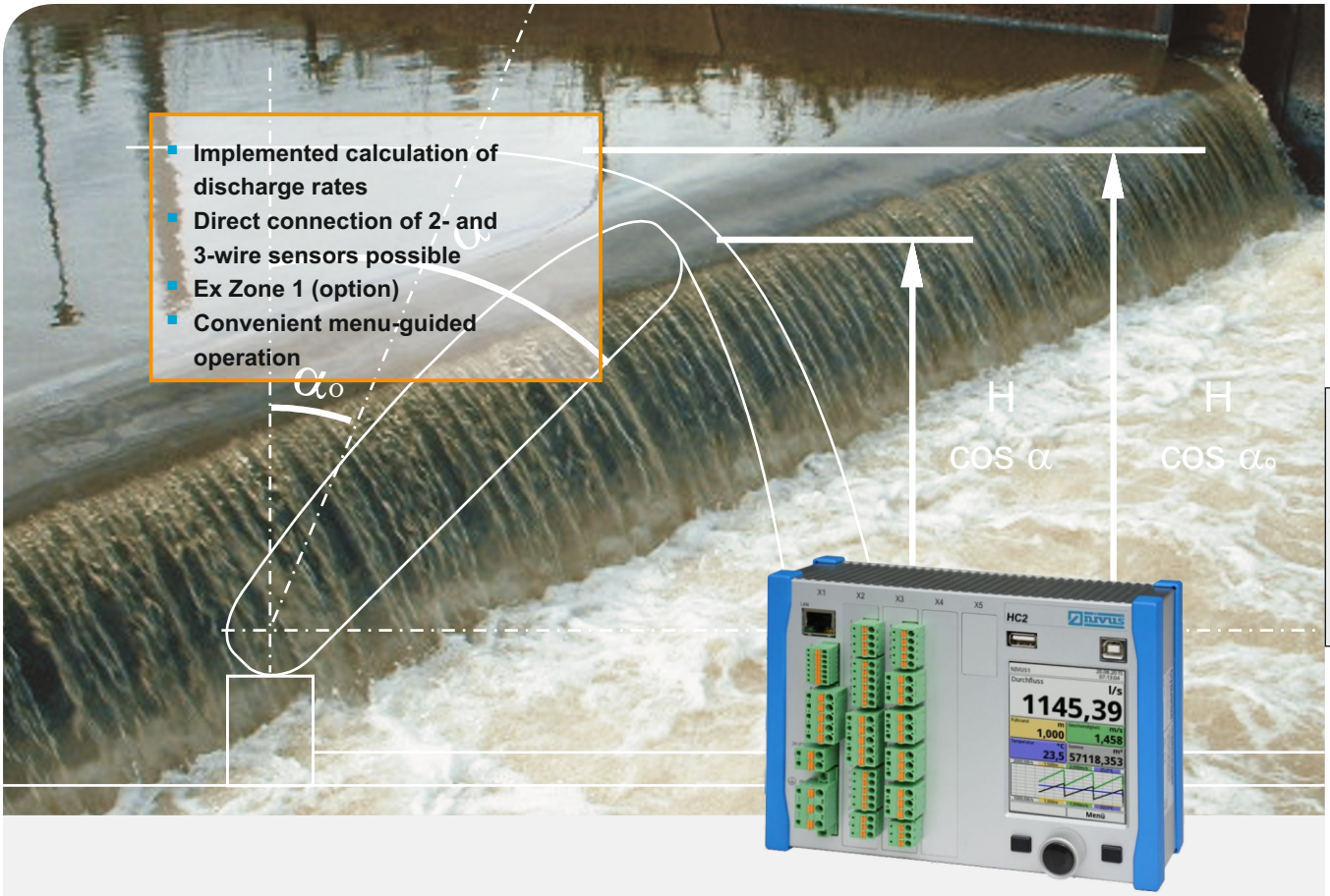
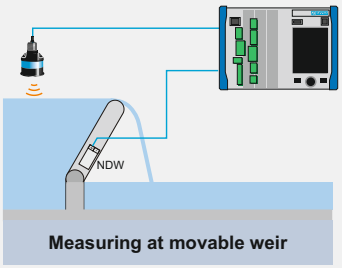
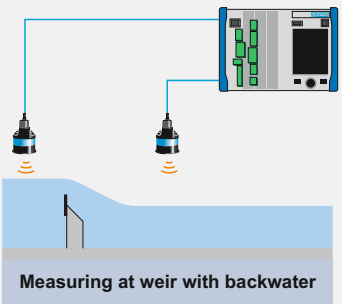



# HydraulicCalculator2




Measuring at movable weir



Measuring at weir with backwater

**Flow calculator for calculating discharge rates at backwater or sills with tangential flow or weirs as well as special structures.**

The HydraulicCalculator 2 has integrated calculation algorithms for calculating discharge rates at side weirs or weirs tending to backwater and compensates for the hydraulic calculation errors that occur when calculating discharge rate measurements according to Poleni. Supplementary calculation methods such as slot discharges with or without backwater, discharge under gates, storage level corrections at weir gates etc. complete the service profile.
The metal-encapsulated and compact enclosure offers tool-free installation and assembly. Two analogue outputs and two relays are also integrated into the HydraulicCalculator 2.

Parameter settings are carried out conveniently using the rotary pushbutton in a menu-guided dialogue via a large, backlit colour graphic display.

An easy selection of the calculation-relevant parameters is just as much a matter of course as the implemented diagnostic tools for inputs and outputs, transmitter status, parameter changes, etc.. All required measurement and calculation values are displayed in clearly visible numerical values.

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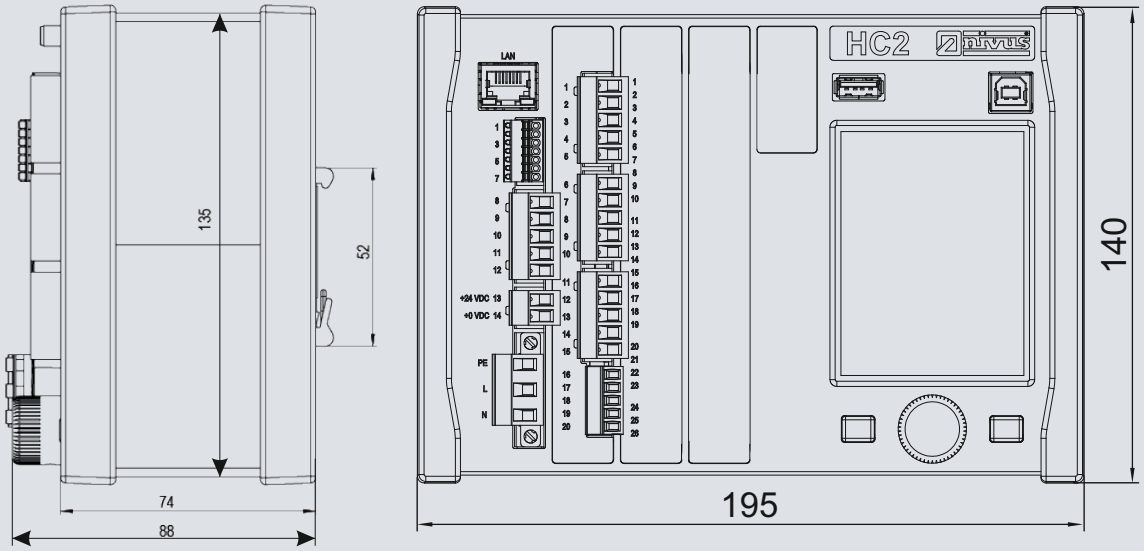
# Specifications

Dimensions




Dimensions in mm

## Flow Calculator

| | |
|---|---|
| Supply power | • 100 - 240 V AC, 47 to 63 Hz or<br>• 10 - 35 V DC (stabilised) |
| Power consumption | AC: 30 VA / DC: 20 W |
| Enclosure | • Material: aluminium and plastic<br>• Weight: approx. 1300 g |
| Operation temperature | -20 to +70 °C<br>-20 to +65 °C |
| Storage temperature | -30 to +80 °C |
| Max. humidity | 80 %, non-condensing |
| Display | Daylight-compatible<br>TFT colour graphic display, 240x320 pixel, 65536 colours |
| Inputs | • 1x 4...20 mA for external level (2-wire probe)<br>• 1x 4...20 mA for external level (2-wire probe; HART)<br>• 2x digital input |
| Outputs | • 2x 0/4...20 mA, load 500 Ohm, 12-Bit resolution, Accuracy higher than ±0.1 % at 20 °C (higher ±0.4 % at -20…+70 °C)<br>• 1x bistable relay (SPDT), max. load up to 230 V AC / 2 A (cos j 0.9), min. switching current 100 mA<br>• 1x relay (SPDT), max.load up to 230 V AC / 2 A (cos j 0.9), min. switching current 10 mA |

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





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