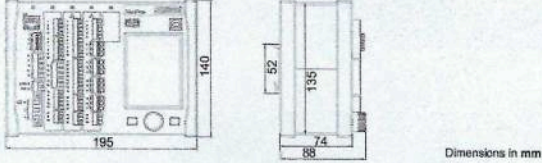


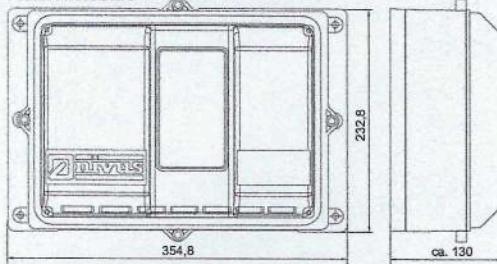


Transmitter

DIN rail enclosure for easy installation in switching cabinet



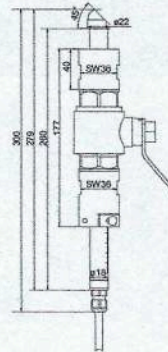
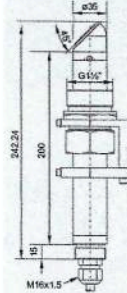
Field enclosure



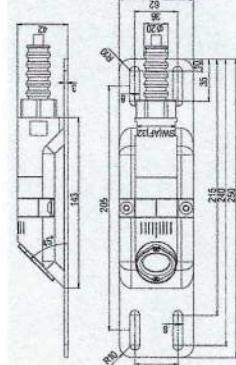
Transmitter

Power supply	100 - 240 V AC, -15% / +10%, 47 to 63 Hz or 10 - 35 V DC
Power consumption	1 relay energised, 230 V AC: (rounded) 14 W up to 8 sensors transit time 1 Mhz
Enclosure	aluminium, plastic
Weight	approx. 1150 g
Protection	IP 20 (control cabinet), IP 68 (field enclosure)
Operating temperature	DC: -20°C to +70°C AC: -20°C to +65°C
Storage temperature	-30°C to +80°C
Max. humidity	80%, non-condensing
Display	240 x 320 pixel, 65536 colours
Operation	rotary pushbutton, 2 function keys, menus in English, German, French, Swedish ...
Connection	plug with cage clamp terminals
Inputs	2x (Type T2) 4-20 mA, with 12 Bit resolution for storage of data from external units, load 91 Ohm, 2 x (Type T2) digital input
Outputs	2 x (Type T2) 0/4-20 mA, load 500 Ohm, 12 Bit resolution 1x (Type T2) bistable relay SPDT, load up to 230 V AC/2 A (cos 0.9), minimum switching current 100 mA 1x (Type T2) relay SPDT, load up to 230 V AC/2 A (cos φ 0.9), min. switching current 100 mA
Data memory	1.0 GB internal memory, readout on faceplate via USB stick
Communication	• Modbus TCP via network (LAN/WAN, Internet) • Modbus RTU via RS485 or Rs232 • Ethernet TCP/IP • 2G/3G/4G via built-in radio comm. modem
Number of paths	1 up to 4 measurement paths up to 32 measurement paths with NivuFlow Extension Module

Pipe sensor

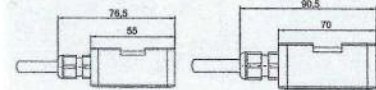


Wedge sensor



Dimensions in mm

clamp-on sensors



Dimensions in mm

Dimensions in mm

Sensor

Measurement principle: Ultrasonic transit time	
Measurement range	flow velocity ± 20 m/s
Inner pipe diameter	0.2 m to 12 m (DN200 to DN12000) clamp-on: 0.05 m to 6.0 m (DN50 to DN6000)
Measurement uncertainty	flow velocity ($v_{average}$) $\pm 0.1\%$ of measurement value within the path
Measurement frequency	1 MHz and 500 KHz
Protection	IP 68
Operating temperature	-20° C to +50° C, clamp-on: -30° C to +80° C
Operating pressure	pipe sensor: max. 16 bar (with retaining element)
Cable length	10/15/20/30/50/100 m (extension option: sensors connectable to adapter box, cable length between adapter box and transmitter max. 200 m)
Outer cable diameter	8.5 mm, Clamp-On 7 mm
Sensor types	• pipe sensor with retaining element • wedge sensor with ground plate • Clamp-on-Sensor
Medium contacting materials	• pipe sensor: stainless steel 1.4571, NBR, CFK (Carbon), HDPE • wedge sensor: stainless steel 1.4571, CFK (Carbon)

The specifications above are extracts from the complete documentation. You can find the complete specifications on our instruction manuals.

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