

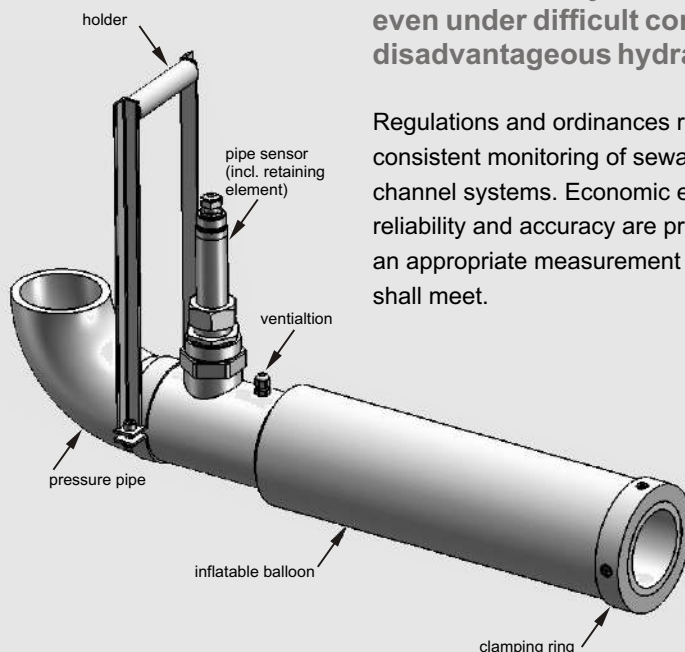


- Exactly defined cross-sectional area in pipes
- Measurement in full pipes with ideal flow profiles
- Proven flow velocity measurement via ultrasonic cross correlation with digital pattern detection
- Sediment detection by combined level measurement integrated in flow velocity sensor
- Variable use in pipes with various diameters
- Lightweight, can be installed by one person

NPP NIVUS Pipe Profiler

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Pipe measuring section as extension of the portable flow measurement systems PCM Pro and PCM 4. The flexible measurement system ensures high accurate flow determination even under difficult conditions such as low discharge volumes or disadvantageous hydraulic flow conditions.



Regulations and ordinances require consistent monitoring of sewage channel systems. Economic efficiency, reliability and accuracy are prerequisites an appropriate measurement system shall meet.

- Verification of channel utilization
- Calibration basis for hydraulic calculation models
- Determination of required renovation extents
- Determination of required reservoir volumes (retention basin)
- Introduction of a channel management system
- Localisation of extraneous water volumes
- Influent control
- Throttle discharge control
- Determination of basics for new billing networks



Specifications

Pipe Measuring Section

NPP NIVUS Pipe Profiler
Pipe Measuring Section consisting of inflatable balloon with clamping ring and pressure pipe with holder, sensor holder and ventilation

Max. filling pressure	1.5 bar Allow filling only by using a relief valve!
Operating temp.	-20 °C bis +50 °C
Operational range	for pipes with inner ø from 150 to 600 mm
Material	pipe body: HDPE inflatable balloon: natural rubber
Sensor holder	G1.5" inner thread

Accessories

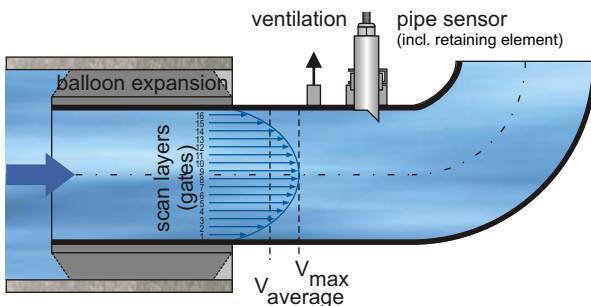
Suitable transmitters

PCM Pro Ex, PCM 4

Suitable sensors (type POA)

Construction	pipe sensor incl. retaining element for installation in pipes using a nozzle
Sensor type	<ul style="list-style-type: none"> • type POA-V1H1RTE flow velocity measurement with integrated level measurement and temperature measurement to compensate the temperature effect on sound velocity (detection of sedimentation possible) • type POA-V100RTE flow velocity measurement without level measurement with temperature measurement to compensate the temperature effect on sound velocity

Additional accessories relief valve 1.5 bar - for NIVUS Pipe Profiler (NPP - all sizes)



NPP Type	Outer ø mm	Inner ø mm	Weight kg*	Total length mm	For installation in pipes inner ø mm	Qmax in l/s	Q in l/s with accumulation 1 m
DN 150	148	90	7.5	835	150 - 300	approx. 38	approx. 17
DN 200	200	141.8	13	970	205 - 500	approx. 95	approx. 42
DN 300	258	199.4	20	1160	265 - 600	approx. 187	approx. 76
DN 350	290	221.6	26.5	1200	295 - 600	approx. 221	approx. 90

* incl. sensor, without cable

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

