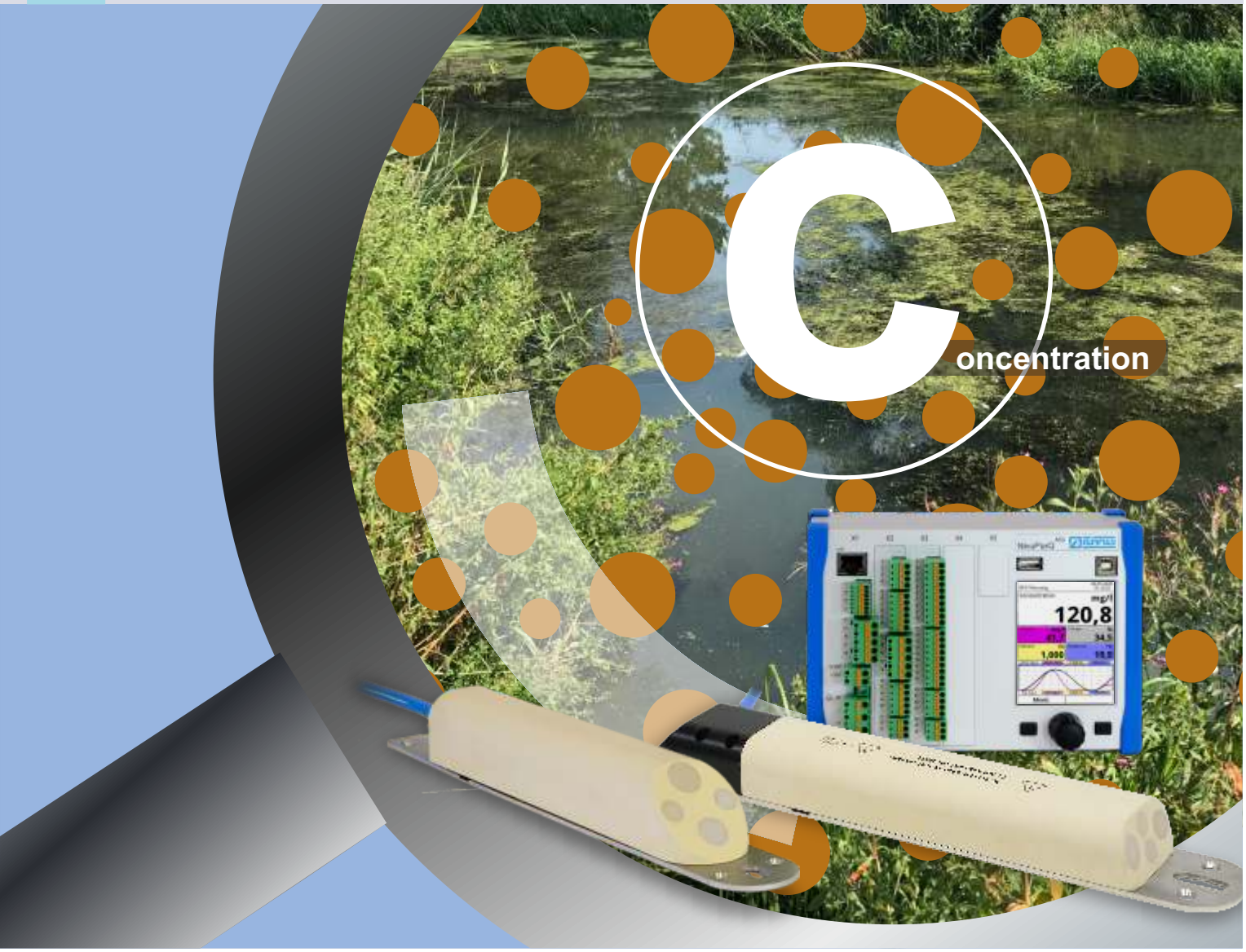
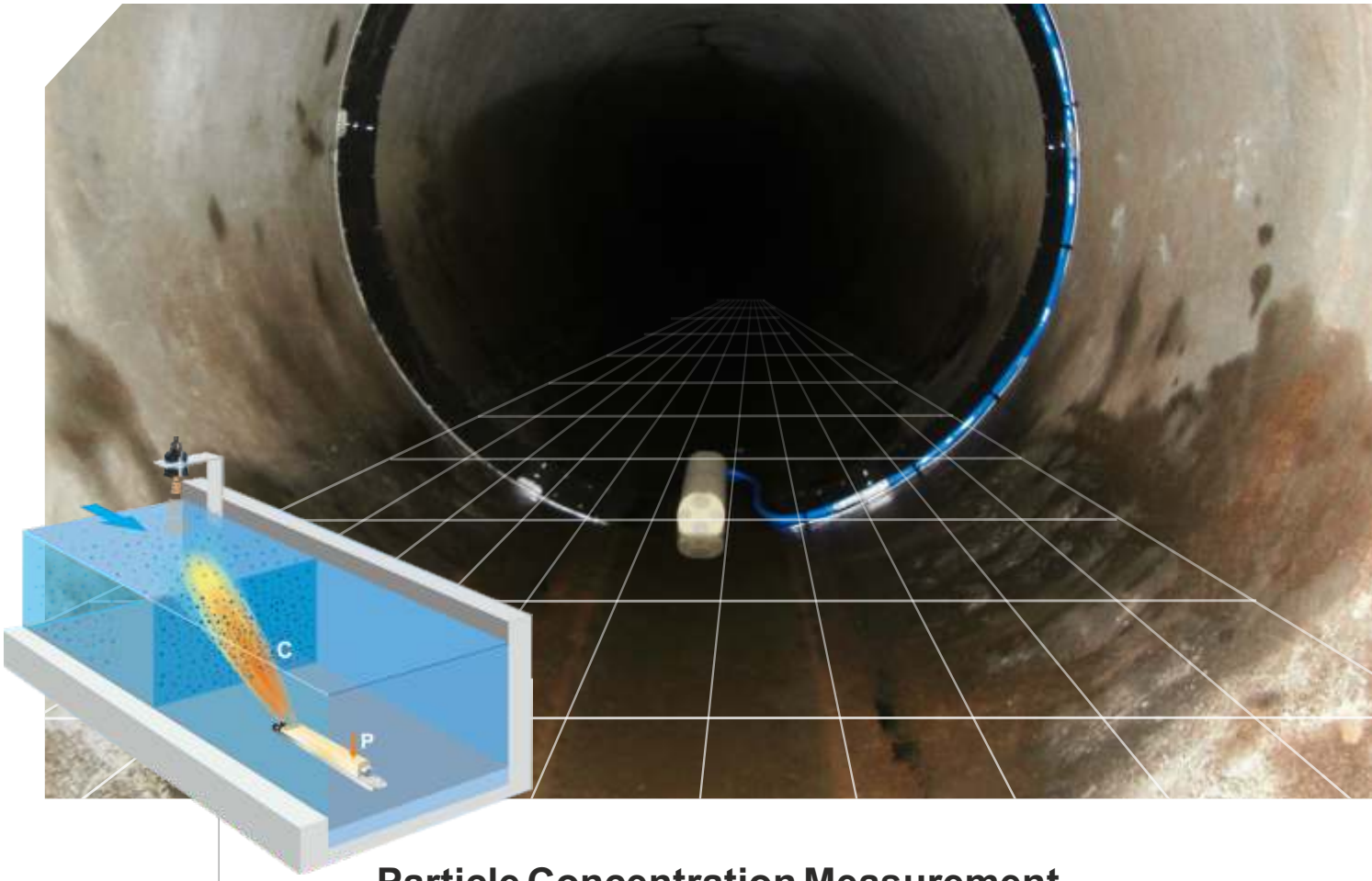
measure analyse optimise

# NivuParQ 850




**Acoustic Particle Concentration Measurement**



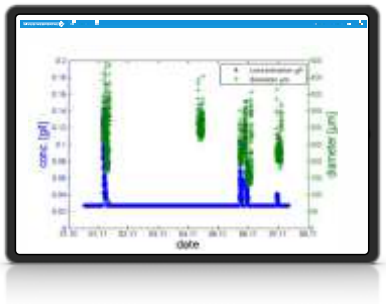

# Particle Concentration Measurement
# measure. continuously. maintenance-free. easily.

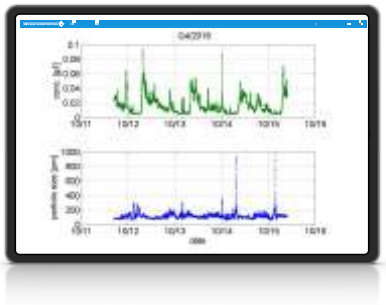
The determination of filterable substances (TSS) is increasingly becoming the focus of attention due to legal requirements (e.g. EU Municipal Waste Water Directive, DWA-A 102). In order to ensure good water quality, the requirements for rainwater treatment plants and discharges into water bodies are becoming increasingly stringent.

The measuring system, consisting of the NivuParQ 850 transmitter and PKM sensor, allows continuous particle concentration measurements to be easily taken in rainwater, combined sewer overflow, surface water or hydropower applications. The low-maintenance system can be used in part filled and full channels, flumes and pipes of various geometries and dimensions. The patented measurement technology used, based on the multi-frequency ultrasound method, detects the particle concentration in the water. The measurement system can also provide an estimate of the particle size distribution. In combination with a flow measurement, the total dirt load can be determined.

*Measurement in surface water*

*Measurement behind solids filter*





**Benefits and Features**

- Continuous and drift-free measurement of particle concentration (TSS equivalent) using multi-frequency ultrasound technology
- Measurement in the flow cross-section
- Estimation of particle size distribution
- Very low operating costs, as no time-consuming sampling with laboratory analysis is required
- Easy installation as well as quick and straightforward operation
- Low-maintenance and reliable measuring system
- Low investment costs for measurement point installation
- Additional measurement parameters through integrated temperature and level measurement
- IoT-ready with global 4G connectivity for maximum availability and digital services

**Possible Applications**

- Determination of the effectiveness of rainwater treatment plants
- Measurement of precipitation-related dirt load in surface discharges
- Inspection of retention and solids filters
- Measurement at the intake of hydropower plants
- Dirt load inspection of direct dischargers into water bodies
- Quality-dependent control of rainwater and combined sewer water
- Measurement of suspended solids transport in surface waters

**NIVUS GmbH**
75031 Eppingen, Germany
Tel. +49 7262 9191-0
info@nivus.com
www.nivus.de

**NIVUS AG**
8750 Glarus, Switzerland
Tel. +41 55 6452066
info@nivus.ch
www.nivus.ch

**NIVUS Austria**
3382 Loosdorf, Austria
Tel. +43 2754 5676321
austria@nivus.com
www.nivus.de

**NIVUS Sp. z o.o.**
81-035 Gdynia, Poland
Tel. +48 58 7602015
biuro@nivus.pl
www.nivus.pl

**NIVUS France SAS**
75009 Paris, France
Tel. +33 1 89708767
info@nivus.fr
www.nivus.fr

**NIVUS Ltd., United Kingdom**
Coventry, CV3 4SU
Tel. +44 1926 632470
info-uk@nivus.com
www.nivus.co.uk

**NIVUS Middle East (FZE)**
Business Bay Dubai
Tel. +971 4 4580502
middle-east@nivus.com
www.nivus.com

**NIVUS Africa**
Giza, Egypt
Tel. +20 2 35393975
sales@nivusaf.com
www.nivus.com

**NIVUS Korea Co. Ltd.**
21984 INCHEON,
South Korea
Tel. +82 32 2098588
jhkwon@nivuskorea.com
www.nivuskorea.com

**NIVUS Vietnam**
Bin Hoa City,
Dong Nai Province, Vietnam
Tel. +84 94 2623979
jhkwon@nivuskorea.com
www.nivus.com

**NIVUS Technologies India Pvt. Ltd.**
600116 Chennai,
Tamil Nadu, India
Tel. +91 44 6923 0047
india@nivus.com
www.nivus.in

Technical data for the
NivuParQ 850 can be found **here**