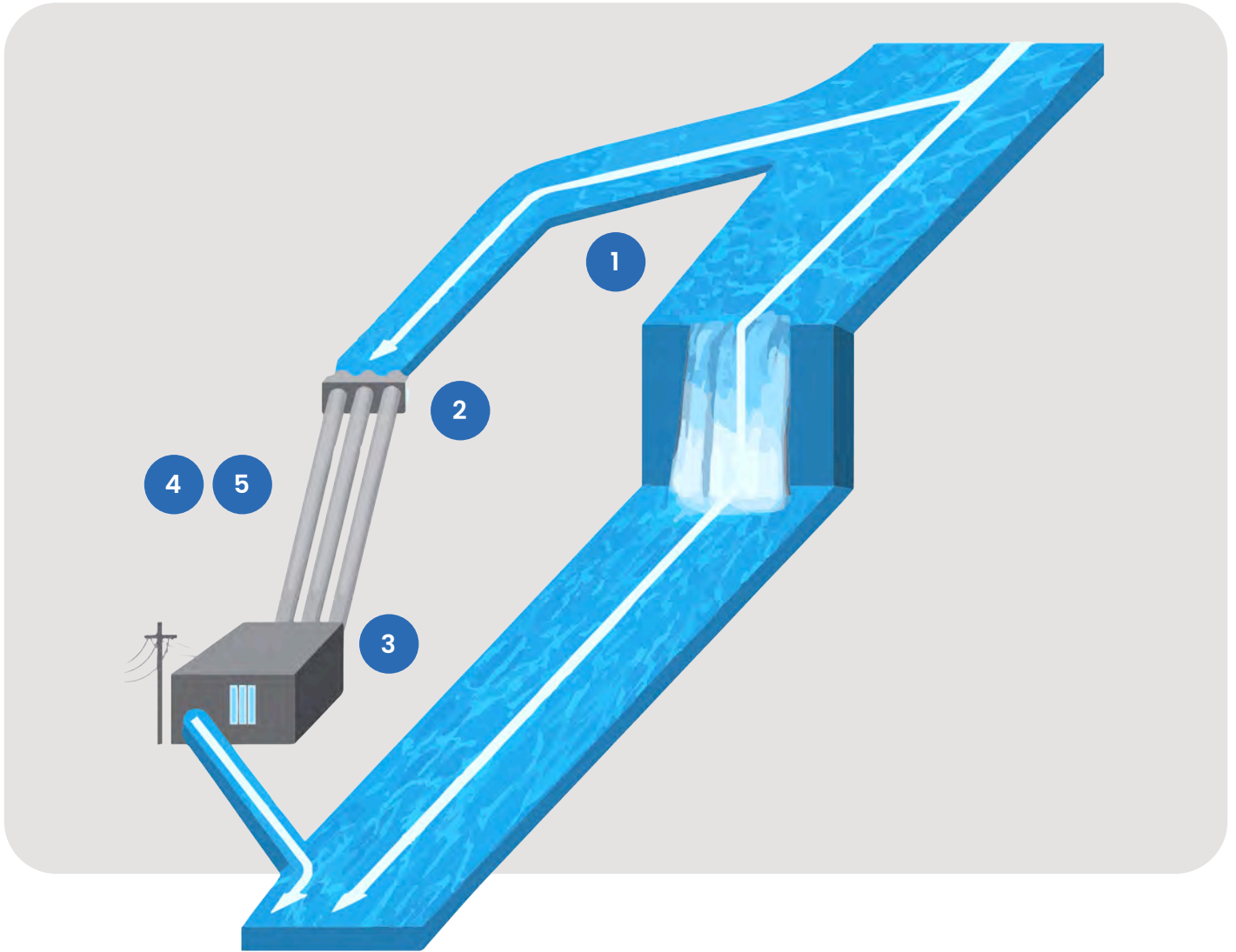




APPLICATION SHEET

Hydropower

Hydropower applications

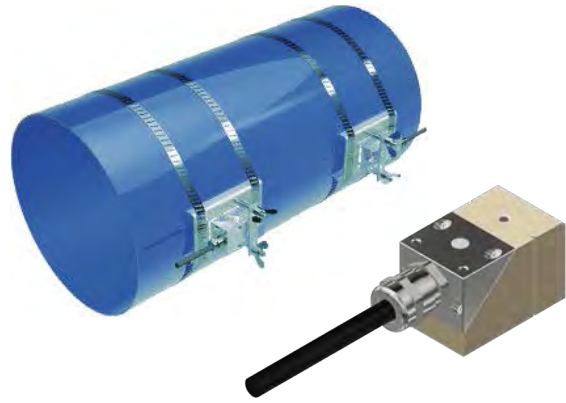


- 1 Supply and reserved flow measurement
- 2 Overspeed and flow measurement
- 3 Performance measurement
- 4 Line balance
- 5 Expertise

Full pipe flow measurement

Clamp-on probes applications

- 1 Supply and reserved flow
- 2 Overspeed and flow measurement
- 3 Performance
- 4 Line balance
- 5 Expertise

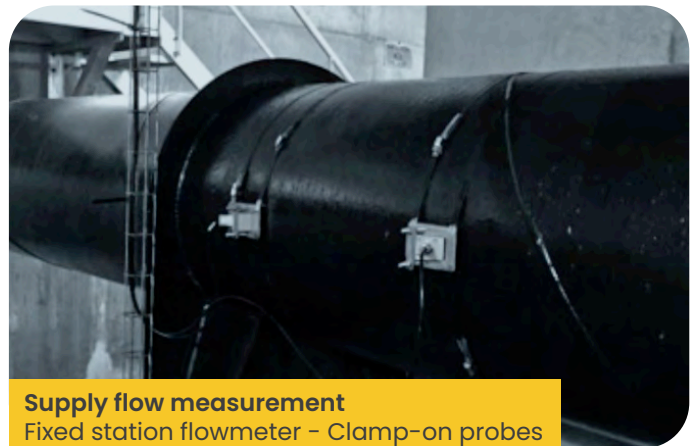


Technology benefits

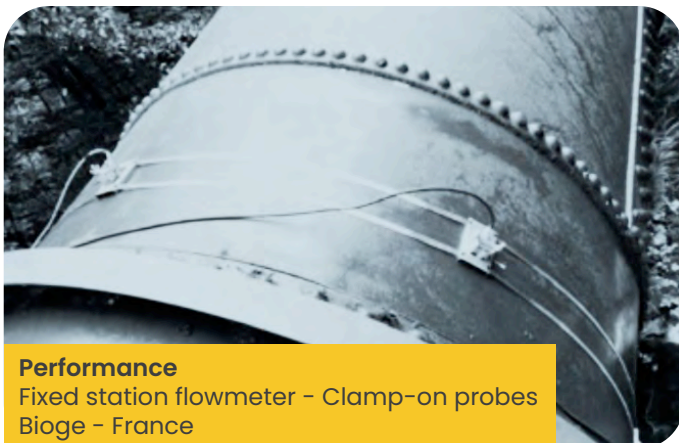
- Continuous flow measurement
- Dynamic measurement - Short response time
- Non-intrusive probes
- No facility modifications
- No process interruption
- Reduced installation costs
- No leak issue due to probes mounting
- Durability of the measurement point
- Reduced and simple maintenance
- No pressure drop
- Good accuracy and repeatability
- Multi pipe option



Reserved flow measurement
Fixed station flowmeter - Clamp-on probes
Saint-Claude hydroelectric dam - France



Supply flow measurement
Fixed station flowmeter - Clamp-on probes
Touche Poupard - France



Performance
Fixed station flowmeter - Clamp-on probes
Bioge - France



Expertise
Portable flowmeter - Clamp-on probes

Full pipe measurement

Insertion probes – Immersed probes applications

- 1 Supply and reserved flow
- 2 Overspeed and flow
- 3 Measurement
- 4 Performance



Technology benefits

- Continuous flow measurement
- Dynamic measurement – Short response time
- Increased accuracy – Parallel multi-chord option
- Compliant to IEC 60041 norm – Turbine efficiency control
- Underload extractable probes for easy maintenance
- Inner pipe mounting for buried installation
- Low maintenance



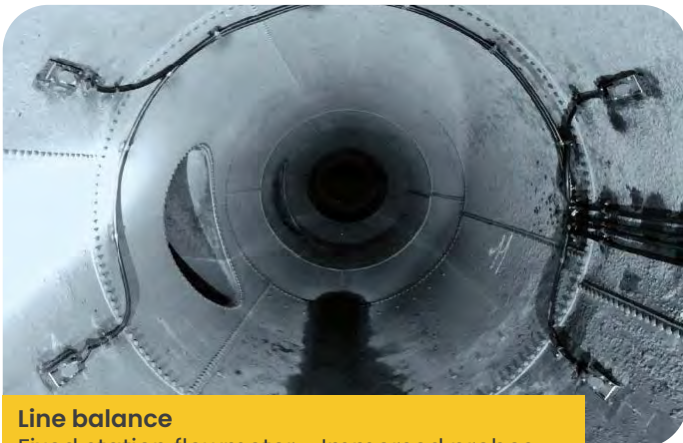
Performance

Fixed station flowmeter – Insertion probes
Laruns – France



Rendement

Fixed station flowmeter – Immersed probes
Geteu – France



Line balance

Fixed station flowmeter – Immersed probes
Porte Sachet – France

Supply / Reserved flow measurement

Immersed probes applications

- 1 Reserved flow measurement
Supply flow measurement

Technology benefits

- Technical solution according to ISO 6416 standards
- Continuous flow measurement
- Dynamic measurement - Short response time
- Range from flood to low flow
- Multi chord option (up to 8) for low straight length conditions
- Low maintenance



Supply flow measurement
Fixed station flowmeter - Immersed probes
La siagne canal - France



Reserved flow measurement
Fixed station flowmeter - Immersed probes
Canal - France

Services – Engineering

- **On-site services**

- Comparative measurements

- Commissioning assistance

- Periodic preventive maintenance visits

- On-site technical assistance (after-sales service)

- **Project design**

- **Hydraulic fluid behavior study (CFD)**
For precision optimisation

- **On-site dimensional inspection**
(dimensional arm / 3D scan)

- **Design of customised pipe spools**



2, Lieu-dit l'Archette
72400 La Ferté Bernard
FRANCE
+33 2 43 60 28 60

faureherman.com