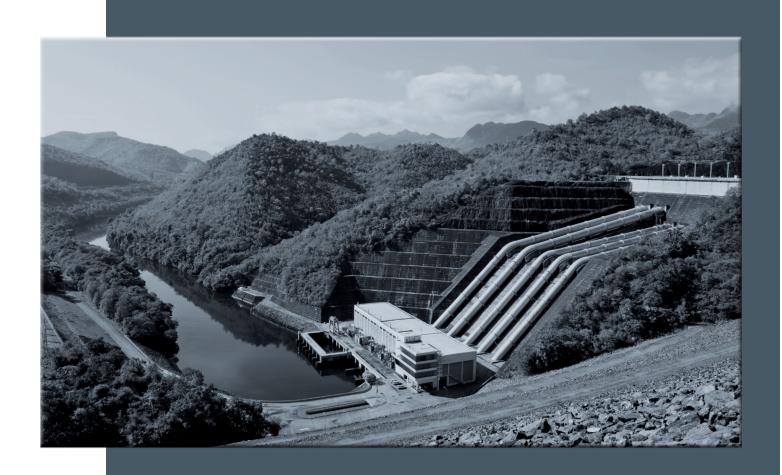


## Hydropower

Ultraflux expertise



Application form

#### **Introduction**

Since its foundation in 1974Ultraflux has been designing, developing, manufacturing and marketing its own extensive range of products. Our complete range includes, portable and fixed flow meters for liquids and gases, open channel meters, clamp on heat meters, interface and pig detectors and gas level measurement systems (i.e. level measurement in gas storage caverns).

Ultraflux's focus on ultrasonic transit time flow measurement and ultrasonic instrumentation gives us the technical skill and experience to solve even the most demanding applications.









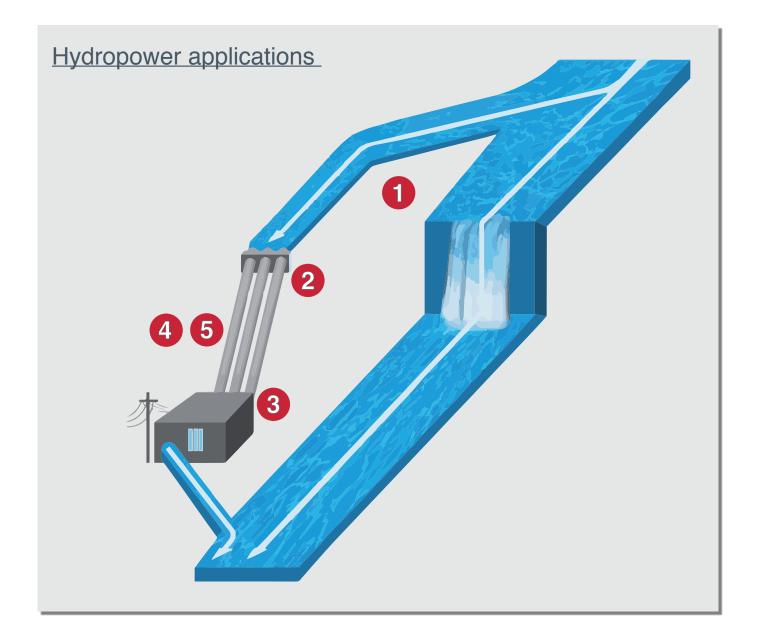












- 1 Supply and reserved flow measurement
- 2 Overspeed and flow measurement
- 3 Performance measurement
- 4 Expertise
- 5 Line balance

# Full pipe flow measurement Clamp-on probes

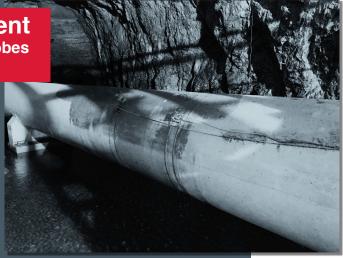
- Supply and reserved flow
- Overspeed and flow measurement
- Performance
- Line balance
- Expertise
- 1 2 3 4 5

#### **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 repetability
- Multi pipe option

#### **Reserved flow measurement**

Fixed station flowmeter - Clamp-on probes Barrage de Saint Claude - 39 - France



## **Supply flow measurement**Fixed station flowmeter - Clamp-on probes

Fixed station flowmeter - Clamp-on probes Touche Poupard - 79 - France



#### **Performance**

Fixed station flowmeter - Clamp-on probes Bioge - 74 - France



#### **Expertise**

Portable flowmeter - Clamp-on probes



# Full pipe measurement Insertion probes - Immersed probes

- Supply and reserved flow
- Overspeed and flow measurement
- Performance
- Line balance

1

2

3

4

#### **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
- Iner pipe mounting for buried installation
- Low maintenance

#### **Performance**

Fixed station flowmeter - Insertion probes Laruns - 64 - France



#### **Performance**

Fixed station flowmeter - Immersed probes Geteu - 64 - France



#### Line balance

Fixed station flowmeter - Immersed probes Porte Sachet - 39 - France



### Supply / Reserved flow measurement Immersed probes

- 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 for low straight length conditions
- Low maintenance



Reserved flow measurement Fixed station flowmeter - Immersed probes Canal - 69 - France



### **Technical services – Engineering**

On-site services

Comparative measurement

Performance control

Project design

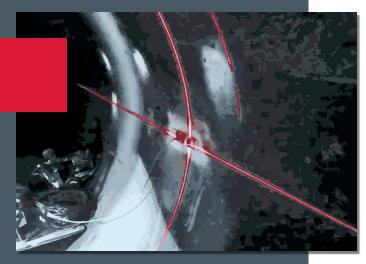
Commissioning and service support

Visits and preventive maintenance

After sale service

- Flowmeter rental
- Fluid dynamics analysis CFD
- Dimensional control
- · Tailor-made spool pipe

#### Commissioning Immersed probe installation



Dimensional control
3x Dimensional tool



Visits & maintenance
Probe installation control



Fluid dynamics analysis
Using CFD simulation tool

