

Water and Energy Management

INSTRUMENTATION PRODUCTS
PRESSURE AND LEVEL - FLOW - POSITION

Rittmeyer develops, produces and installs equipment and systems for **Instrumentation and process control of water and energy management.**

The Rittmeyer company was founded in 1904.

Today's product range includes measuring equipment and turnkey systems for complex processes in

- Water supply (acquisition, treatment and distribution)
- River power stations
- Sewage treatment plants
- Electricity supply
- Hydroelectric plants
- Hydrography
- Drainage systems
- Gas supply
- Irrigation plants
- Long distance energy supply

Rittmeyer's century long progress in these fields guarantees technical expertise as well as economical solutions.

Pressure and Level Measurement RIPRESS

Processing Unit RIPRESS Controller

In conjunction with the corresponding analog or digital sensors the RIPRESS Controller is mainly geared for the acquisition, calculation, display and communication of level, flow and volume. Additional integrated features are limit value monitoring, alarm notification functions, PID control, event and measured value logging as well as remote data access and parameterization.

Pressure Transmitters

Highly sophisticated piezoresistive pressure transmitters with integrated temperature-measuring and -compensation for measurements in:

- Reservoirs
- Piezometer tubes
- Waste water plants
- Well levels
- Lakes, rivers
- etc.

Robust, durable construction for heavy-duty industrial applications.

Measuring range:	0 ... 0.1 to 0 ... 160 bar (0 ... 1.5 to 0 ... 2'300 psi)
Accuracy:	Up to 0.1 %

Ultrasonic Level Transducers

Temperature compensated ultrasonic transducers for level or distance measurement. Intrinsically safe EEx ia T6.

Measuring range:	0.25 ... 6.0m or 0.40 ... 10m 0.8 ... 19.7ft or 1.3 ... 32.8ft
Accuracy:	0.25 %

High Precision Pressure Gauge W2Q

Pressure measuring device with advanced quartz technology. This unit, developed for rugged industrial use, is designed for pressure measurements as well as for hydrostatic and pneumatic level and volume calculations.

- Microprocessor controlled digital technology
- Intelligent processing unit
- Outstanding accuracy and long term stability
- Gradient and trend calculations

Measuring range:	0 ... 20 to 0 ... 275 m of water (0 ... 30 to 0 ... 400 psig)
Accuracy:	0.015 %
Resolution:	1 mm of water (0.003 ft)



Flow Measurement RISONIC 2000

Intelligent ultrasonic flow measurement system based on the transit time principle for recording of velocity, volume and integrated flow. The system is suited for pipe rupture and efficiency monitoring.

- Single and multi-path measurements (max. 8 paths according to IEC41 and ASME PTC 18)
- No moving parts
- Independent of the conductivity, temperature or pressure of the medium
- Cross-flow correction
- Various signal outputs (analog 4 ... 20mA, serial RS232, impulse, flow direction)

Filled and partially filled pipes measurement

Various installation options and transducer types (approved up to PN 80 bar (1160 psi), removable under pressure) are available.

Pipe diameter:	0.3 to 20.0m (1 to 65.6ft)
Accuracy:	Up to 0.5 % of measured value

Open channel measurement

Various installation options and transducer types are available.

Channel width:	0.75 to 70 m (2.5 to 230 ft)
Accuracy:	Up to 1 % of measured value

Position Measurement

Position Transmitter RIPOS

Compact and extremely robust position transmitter (shaft encoder) for the accurate recording, processing and remote indication of position (angle of rotation, stroke, travel).

Advanced microprocessor technology allows both on-site and remote configuration.

Typical applications are the position measurement of flaps, slides, weirs, valves, locks, etc.

- Optical and resistive version
- Any rotational direction
- Modular design
- Linearization

Measuring range:	Up to 4096 revolutions
Accuracy:	Up to 0.025° (resol. up to 24 bit)

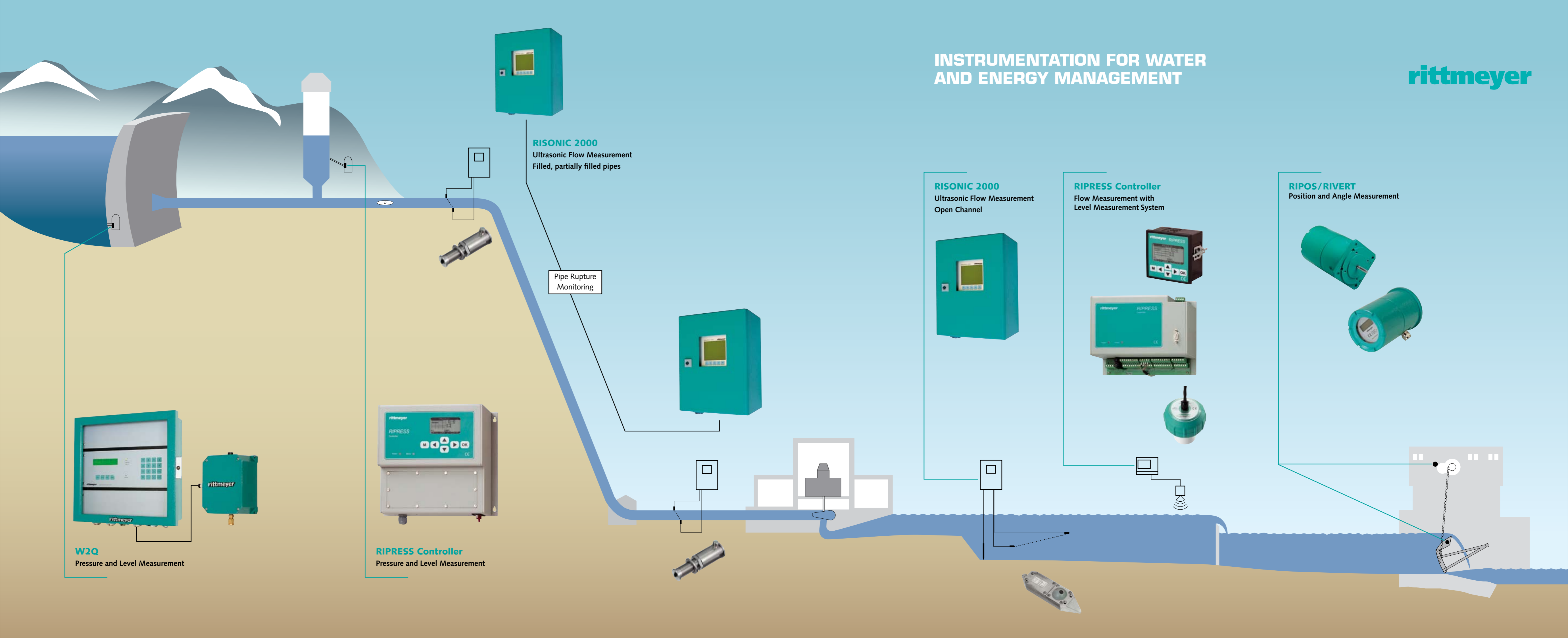
Clamp-on Angle Transmitter RIVERT

Angle transmitter of compact and robust design with gravity pendulum as vertical reference value. Simple installation directly onto rotating parts such as lock-gates, flaps, drawbridges, etc.

- Optical or resistive version
- No coupling or transmission necessary
- Advanced modular microprocessor technology
- Parameterizable
- Linearization

Measuring range:	-100° ... +100°
Accuracy:	Up to 0.02 % of measuring range

INSTRUMENTATION FOR WATER AND ENERGY MANAGEMENT



RISONIC 2000
Ultrasonic Flow Measurement
Filled, partially filled pipes

Pipe Rupture
Monitoring

RISONIC 2000
Ultrasonic Flow Measurement
Open Channel

RIPRESS Controller
Flow Measurement with
Level Measurement System

RIPOS/RIVERT
Position and Angle Measurement

W2Q
Pressure and Level Measurement

RIPRESS Controller
Pressure and Level Measurement



Integrated, International, Performance-Oriented

As part of an innovative Swiss company, our highly qualified specialists develop superior, industry-specific solutions.

Rittmeyer is a member of the BRUGG Group, whose roughly 1500 employees work in 30 subsidiaries located in 9 countries and branch offices in all major industrial nations. We offer state-of-the-art technology, leading know-how and highest quality.



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