



## Flow Measurement RISONIC modular

Intelligent flow measurement system based on the ultrasonic transit time method for recording of velocity, volume and integrated flow. The system is suited for pipe rupture and efficiency monitoring (IEC60041, ASME PTC 18).

- Single and multi-path measurements up to 20 paths
- Suitable for difficult hydraulic conditions
- Multi-section / multi-pipe
- Low Power / Sleep mode
- Web interface for the parameter configuration and remote access
- Integrated data logger with remote access via web interface
- MODBUS / IEC 60870-5-104 communication

### 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:	0.2 to 35 m [1E1P/45°] (0.7 to 115 ft)
Accuracy:	Up to 0.5 % of measured value

### Open channel measurement

Various installation options and transducer types are available.

Channel width:	0.2 to 100m [1E1P/45°] (0.7 to 328 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 sensor
- 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, draw-bridges, etc.

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

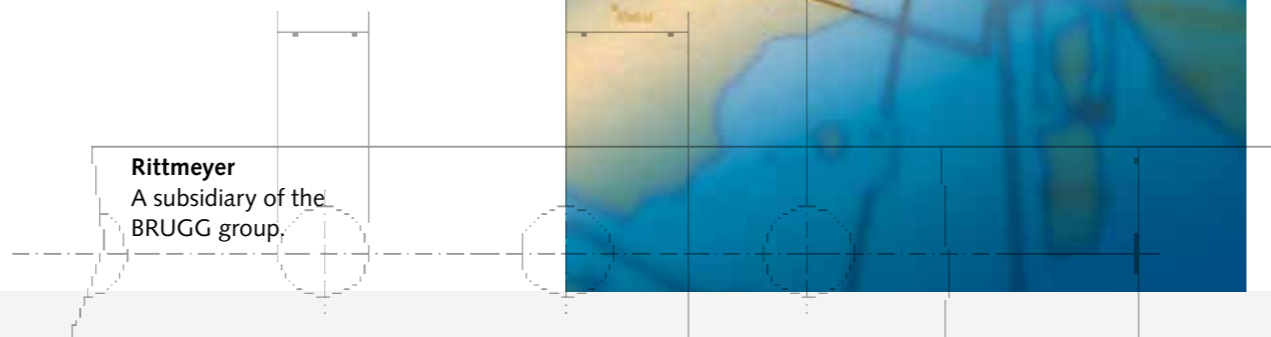
Measuring range:	-100° ... +100°
Accuracy:	Up to 0.02 % of measuring range



## Integrated, International, Performance-Oriented

Rittmeyer develops, manufactures and installs instrumentation and process control system solutions for the water and energy sector. Founded in 1904, Rittmeyer has commissioned more than 20,000 installations to date. With 8 subsidiaries, a sales and representative office and agencies in over 25 countries we are active worldwide.

Thanks to state-of-the-art technology, world class expertise and highest quality we provide our customers with reliable, precise and tailored solutions.



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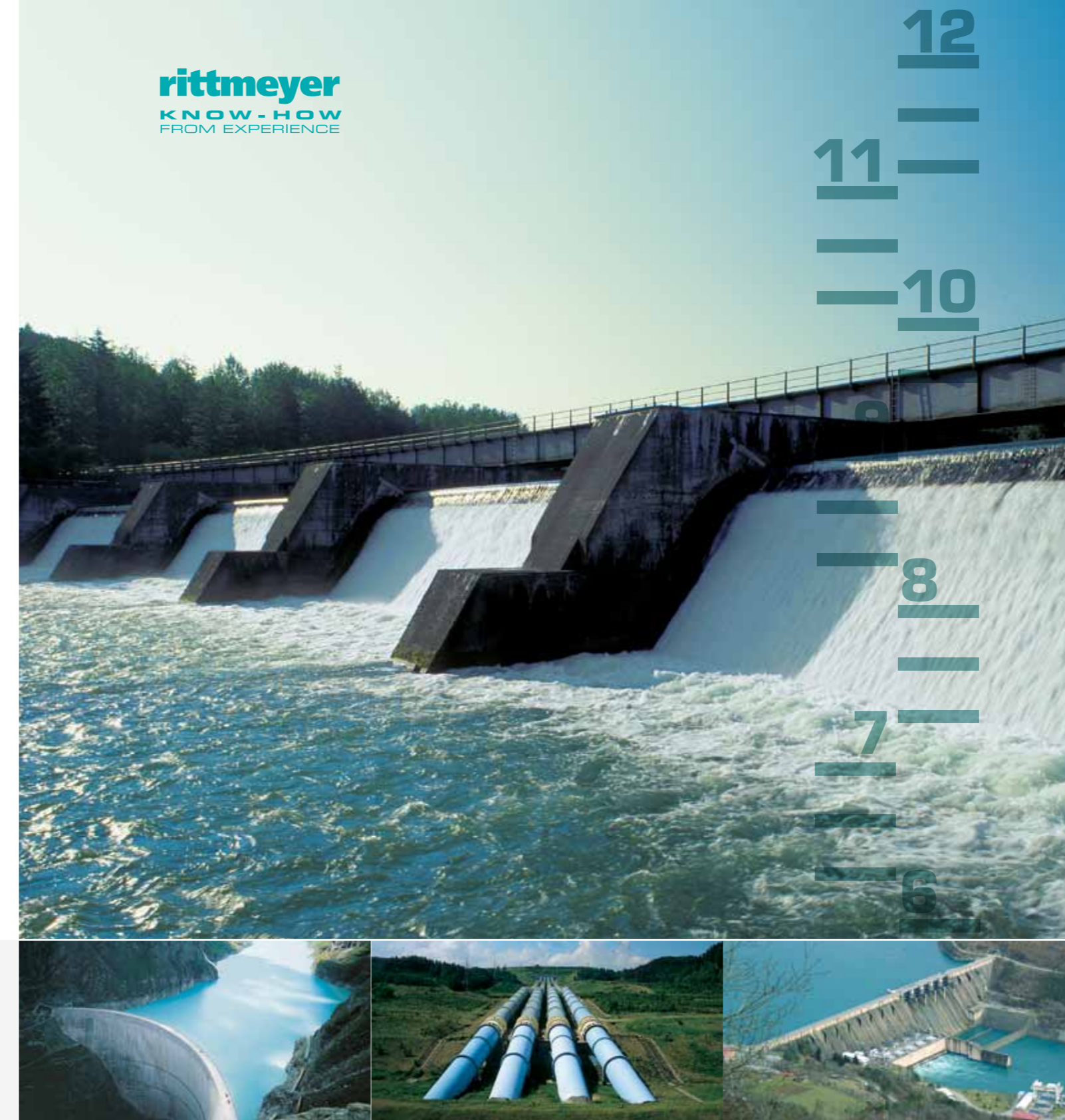
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## Water and Energy Management

**INSTRUMENTATION PRODUCTS**  
PRESSURE AND LEVEL - FLOW - POSITION

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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 ... 2300 psi)
Accuracy:	Up to 0.05 %

### 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)



