

# INSTRUMENTATION *Controller*

for  
**RISONIC** modular  
**RIPRESS** smart  
**RIPRESS** premium



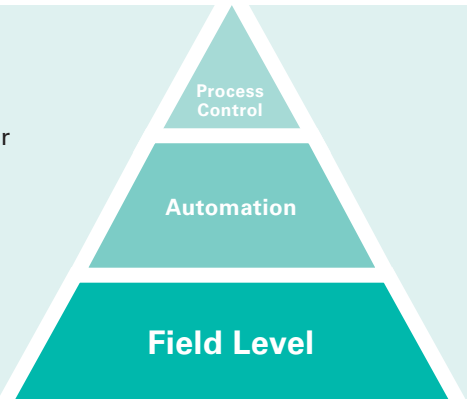
Advanced measurement and control applications  
Large range of mathematical functions  
Digital and analog I/O's, Modbus RTU/TCP, IEC 60870-5-104

**BERTSCHI**  
Instrumentos

**rittmeyer**  
BRUGG

## FEATURES AND BENEFITS

- Up to four measurement sections per Controller
- Large range of mathematical functions: Add/Sub/Mul/Div/Pow/Int/Diff/Filter
- Integrated data logger with remote access
- Individually galvanically isolated inputs and outputs
- 32 bit parallel code output (gray, binary, BCD) via external relays module
- SMS alarm notification via external GSM/GPRS modem
- Built-in web server for easy configuration and diagnosis
- Low power (typically 12...15 W) and sleep mode (< 0.5 W)
- Maintenance-free and suitable for rugged environments



### Main Applications

#### RISONIC modular

Ultrasonic Transit Time Flow Measurement

#### RIPRESS smart

Advanced Water Control Applications

#### RIPRESS premium

High Precision Level Measurement

### Further Benefits and Applications

#### Built-in Functions

- Freely programmable conversion tables
- Limit value monitoring
- Volume counter with persistent data storage
- Trend function

#### Water Quality Monitoring (4 ... 20 mA Sensors)

- Temperature, pH value, Conductivity, etc.

#### Ultrasonic Level Transducer MPUL06 / MPUL10

#### RTU - Remote Terminal / Telemetry Unit

## INSTRUMENTATION Controller

### Operating Temperature

-20 ... +70°C [-4 ... +158°F]

### Protection Class

IP20

galvanically isolated digital outputs (relays)



galvanically isolated digital input (optocoupler)



galvanically isolated analog inputs/outputs 4 ... 20 mA accuracy @ 25°C ±0.1% FS



(OPEN-TYPE PROCESS CONTROL EQUIPMENT) 3VN3

USB 1.1 Host (mass storage devices)



24 VDC -20%/+25%



Electronically switched 24 VDC output



STATUS OUT relay



COM1 RS232; GSM/GPRS Modem

COM2 RS485; Modbus RTU Slave

COM3 RS485; Modbus RTU Master

LAN1 Ethernet 10/100 BaseT HTTP, FTP, Modbus TCP Slave, IEC 60870-5-104

LAN2 Ethernet 10/100 BaseT (for communication to RIMOUSTT module)

