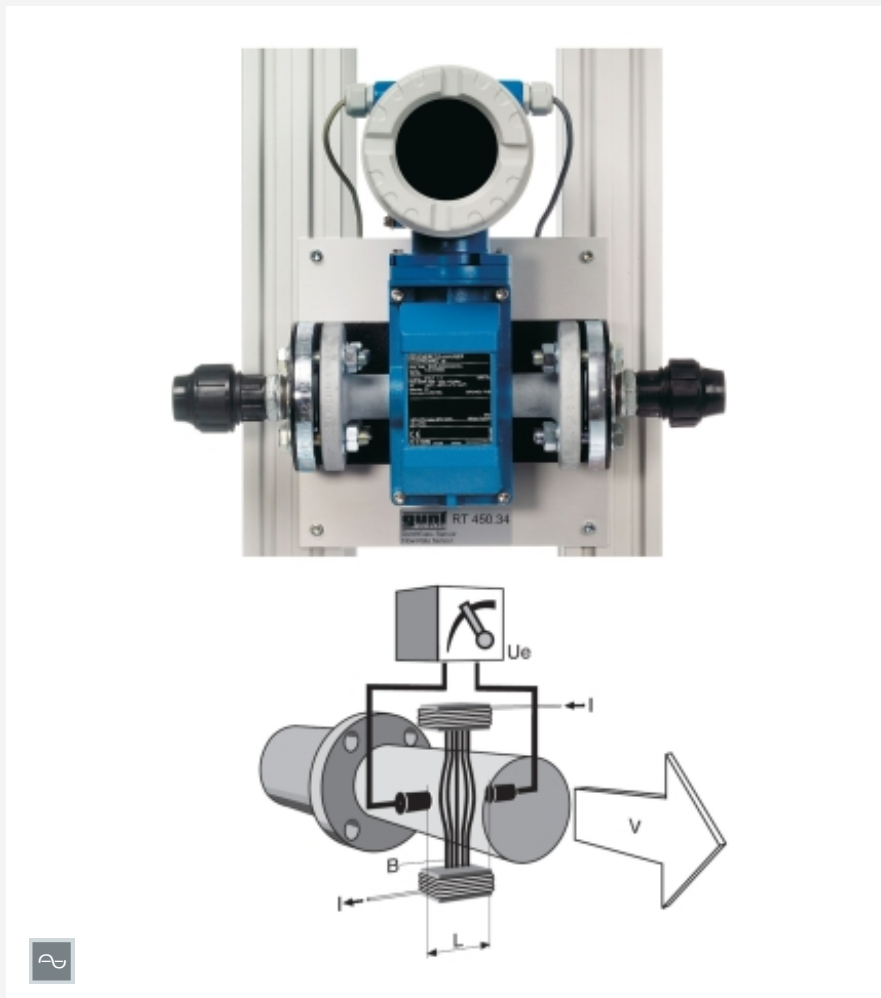


# RT 450.34

## Flow rate sensor: electromagnetic



### Learning objectives/experiments

- principle of an electromagnetic flow rate sensor
- electrical connections: voltage supply and measurement signal
- standard current signals and correct electrical wiring and interconnection

### Specification

- [1] compact unit for flow rate measurement
- [2] all electrical connections pre-wired
- [3] flow rate sensor connected by plastic pipes and clamp fittings or pipe adapters
- [4] no pressure loss due to flow resistance

### Technical data

#### Flow rate sensor

- measurement principle: electromagnetic
- measuring range: 0...2,5m<sup>3</sup>/h
- output signal: 4...20mA
- measuring tube diameter: D=24mm
- temperature range: 0...60°C

#### Measuring medium

- pressure of measuring medium: max. 16bar
- minimum conductivity of medium: 50μS/cm

24VDC

LxWxH: 200x180x350mm

Weight: approx. 10kg

### Description

- industrial flow rate sensor with measurement based on electromagnetic induction
- negligible pressure loss

Negligible pressure loss occurs for flow through the sensor's measuring tube.

The flow rate sensor is a compact unit comprising a measurement sensor and a transducer. This compact unit is required in the construction of a flow rate control loop. It can also be used as an auxiliary instrument in a level control loop.

The flow rate sensor is installed on a panel which can be quickly and easily attached to the frame of the RT 450 base module. The signal output and voltage supply are pre-wired, and are connected to the terminals on the base module.

### Scope of delivery

- 1 flow rate sensor