

Pulsers

Active and passive sensors for data communication

All of our Woltman meters can be retrofitted with active or passive pulsers without damaging the calibration seal. Up to 2 Reed sensors and one active pulser can be simultaneously attached.

All pulsers, that do not require their own power supply, are referred to as passive sensors. Active sensors require a power supply and typically require a transducer with mains supply, to be activated.

Reed sensors

As a passive pulser, the Reed sensor is designed as a potential-free normally open contact. It is closed with a frequency proportional to the flow rate by a serially integrated magnet within the counter, and opens itself automatically again. Typical pulse values are 100, 1000, and 10,000 L/Imp., depending on meter size and mounting position.

The Reed sensor does not require its own power supply and is therefore the ideal partner for all electronic devices whose energy supply comes from a battery.

Optical sensors

The active optical sensor is an electronic switch, which produces an impulse in the serially integrated light barrier in the counter. Its advantage over the Reed sensor is that higher resolutions of the impulse value are possible. Depending on the meter size, 1 and 10 L/Imp is typical.

As an active sensor, the optical sensor requires a power supply and is commonly activated by a transducer.