

# FAST

## ZM - Capacity and Inflow Measurements

- objective acquisition of waste quantities
- determination of metered values to establish measuring zones
- determination of night-time minimum consumption
- capacity analysis of hydrants

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## Capacity- and Inflow-Measurements - ZM

The "Water Loss Analysis" and "Inflow Analysis" measurement techniques have revolutionized the methods applied for loss calculations and evaluation of relevant measurement data in the water sector.

For the first time, there have been methods available to fairly objectively determine loss quantities and to locate the particular leakage spots. The simultaneous display of important measurement data for network monitoring purposes by zone measurement procedures was part of the reasonable usage.

With the new W 392 work sheet to be published at the end of the year, the usage of the above method will be given a higher priority. The exact determination of water losses and consumption data in combination with the determination of night-time consumption is an element of the self-monitoring processes to take place at a later point of time through a splitting of the particular network into zones and zone monitoring through measurement spots and inbuilt MID's respectively.

### Capacity Measurements

Furthermore, the requirements for the usage of water for fire-extinguishing purposes have risen, and its availability to the fire brigade cannot be guaranteed everywhere as pipe diameters are decreasing. Convincing information on the basis of reliable measurement data to be acquired through measurements on the network is essential.

The system applicable for such measurements has some advantages over the conventional Woltmann-meters as an unlimited diameter of the MID makes it possible to carry out measurement procedures right away from the first opening of the valve and eliminates any damage due to stones or rocks in the pipe. Rinsing and the acquisition of the discharging quantity have become one stage. The quantities can directly be marked up as personal consumption or losses.

### Inflow Measurements

An additional property turns the capacity measurement device into an inflow measurement device. This inflow measurement property can be activated before a measurement and de-airs the entire system.

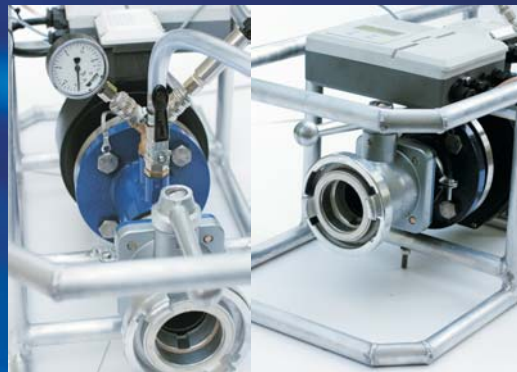
A pressure test as a tightness check of the valves follows. Optionally, the device can also be delivered in combination with an aluminium rack equipped with another ball valve and meets the requirements for permanent installation purposes in a vehicle.

### Data Processing – Display – Data Storage

With additional modular units such as the zm-system software, all data can be displayed, saved, and documented with a PC. The software design is very practice-oriented and perfectly meets the requirements of such measurements. As soon as the RS232 interface of the MID has been connected to the PC, and the data can be transferred. The software is also capable of processing signals from frequency inputs or Read contacts.

### Data Transfer Box

This box is required when you intend to transmit pressure values acquired by an electronic pressure gauge or when you want to connect a frequency output or a Read contact. The box digitises the data for the computer and the USB interface respectively.



ISO 9001:2000

Specifications are subject to change.