



## Quantity measurements of fruit juice deliveries



Flow sensor MFI447

## Flow measurement for fruit juice

### The requirements placed on us

Klaus Fruchtsäfte & Cannewitzer Biere is a manufacturer of apple juice, among other things. Other fruit juices are purchased for the sale of mixed fruit juice. This fruit juice is delivered by tanker and the exact quantities delivered must be determined. Previously, the volume was read with markings on a sight glass tube extending the entire height of the storage tank. This process step should now be automated, wherein the pumped volume can be read locally at the measuring device.

### What was the special difficulty?

Pumping from the tanker to storage tanks takes place with hose lines. Therefore, the flow meter must be durable and suitable for mobile use. In order to couple hoses between them, it must have the process connections used in accordance with DIN11851 (milk tube screw coupling with threaded nozzle and taper nozzle). Due to its use in food applications, cleaning the sensor inside and out must be easy and problem-free.



## BENEFITS

- compact device
- high precision
- illuminated LC graphic display
- battery supply for mobile measurement
- easy to clean

**Our solution**

The magnetically inductive flow meter MFI447, available in sizes DN1 ... 100, was developed specifically for the food, beverage and pharmaceutical industry. With its stainless steel design and small transducer, the measuring device is one of the most compact MIDs in its class.

In the standard version, the device has a measuring accuracy of  $\pm 0.5\%$  of the measured value – the device is also optionally available with a measuring accuracy of  $\pm 0.3\%$  of the measured value.

Sensor cleaning is easy and problem-free both inside and out. This is assured by the stainless steel housing, the materials coming into contact with the product, which are approved for contact with foods, and the piggyback internal design without protruding edges. Operation takes place with capacitive buttons, so it is not necessary to open the device and protection class IP 69K is assured. An optionally available 24 V DC battery supply unit completes the delivery spectrum of the GHM GROUP and enables 100 % satisfaction of customer wishes.

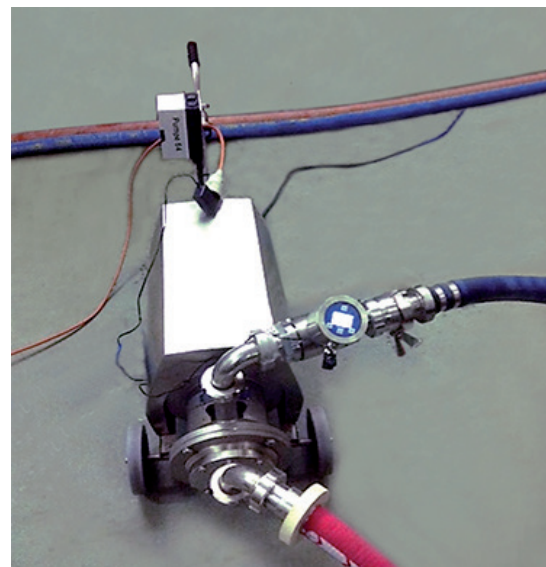
**The benefits**

- for pipes and hoses in sizes DN1 ... DN100
- integrated flow meter
- analogue, pulse and switching outputs
- optionally available metering controller

**Our customer****Klaus Fruchtsäfte & Cannewitzer Biere:**

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Mobile flow quantity detection  
with the MFI447