



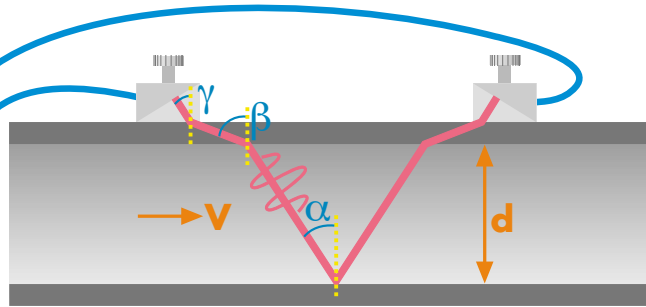
UDM 100

**Ultrasonic Flow
Measuring Device**



**Flowmeter without
Interaction with
Flow Pattern**

sebaKMT



UDM 100

Application:

The portable flow meter UDM 100 is used for precise measurement of direction of flow and actual flow volume of potable water in water supply networks ultrasonically. This measurement is made on the outer surface of the pipe. Flow measurements of this kind must be taken, for instance, when designing pumping power or when determining zero consumption in the analysis of leakage. The flow velocity of liquid media can be measured, too, e. g. to avoid the sediments in a pipe from coming off or to ensure minimum flow velocity in a potable water system in order to maintain high quality. Temperature or heat values can be measured by means of one or two PT 100 sensors. The Ultrasonic Flow Measuring Device employs the principle of measuring the difference of travel times between two ultrasonic sensors. Depending on pipe diameter, two sensors are attached either side by side (reflection measurement) or on opposite sides (flow measurement). These intelligent sensors make re-calibration unnecessary when sites are changed, as their own calibration data are stored. Measuring time can be programmed at will, unattended measurements without the presence of an operator can be taken, e. g. at night. German, English and French are available as user languages.

Features:

- Measurement of wall thickness with self-calibrating sensor
- Print-out of results by built-in logging printer
- Analog data outputs (voltage, current and frequency outputs)
- Heat quantity calculator
- Intelligent sensors (no calibration needed)
- PC interface RS 232

Technical data:

Measuring device:

Rated width:	DN 25 DN 1000
Option:	DN 50 DN 3000
Flow velocity	0.1 ... 20 m/s
Resolution	1 cm/s
Flow quantity	5 ... 100,000 l/min
Measurement error	3% of ± 0.03 m/s
Averaging time	0... 65530 s
LCD (illuminated):	2 x 16 digit LCD
Interface:	RS 232 (V24)
Memory capacity	max. 3000 value
Current supply	NC rechargeable batteries, 5 Ah
Operating time	15 h
Weight	3,5 kg
Dimensions	220 x 100 x 180 mm
Protection	IP 54
Operating temperature	0°C to 50°C

Sensors:

Dimensions	16 x 18 x 35 mm
Operating temperature	-30°C to +130°C
Protection:	IP 65

Standard items supplied:

- Ultrasonic Flow Measuring Device
- Twin sensor 25-1000 mm
- Sensor clamp
- Power supply and charger unit
- Coupling paste

Special accessories:

- PC software
- Interface cable
- Logging printer
- Sensor extension cable
- Sensor retaining bar
- High-temperature sensors

Performance features, not upgradeable:

- Analog output 0/4...20 mA
- Frequency output 0...1 kHz
- Measurement of wall thickness
- Heat quantity calculator
- Logging printer

DIN ISO 9001

sebaKMT

**seba
dynametric**

hagenuk KMT
KABELMESSTECHNIK GmbH

Product Range : Instruments and Test Vans for Fault Location in Power and Telecommunication Networks and for Leak Detection in Water and Sewage Networks • Cable and Pipe Locators • Seminars
SebaKMT Sales • 96148 Baunach/Germany • Phone +49 - (0) 9544 - 68 0 • Fax +49 - (0) 9544 - 2273
E-mail : sales@sebakmt.com • Internet : www.sebakmt.com

Technical data subject to change without notice.
UMD_GB_05/01_WH_Ru