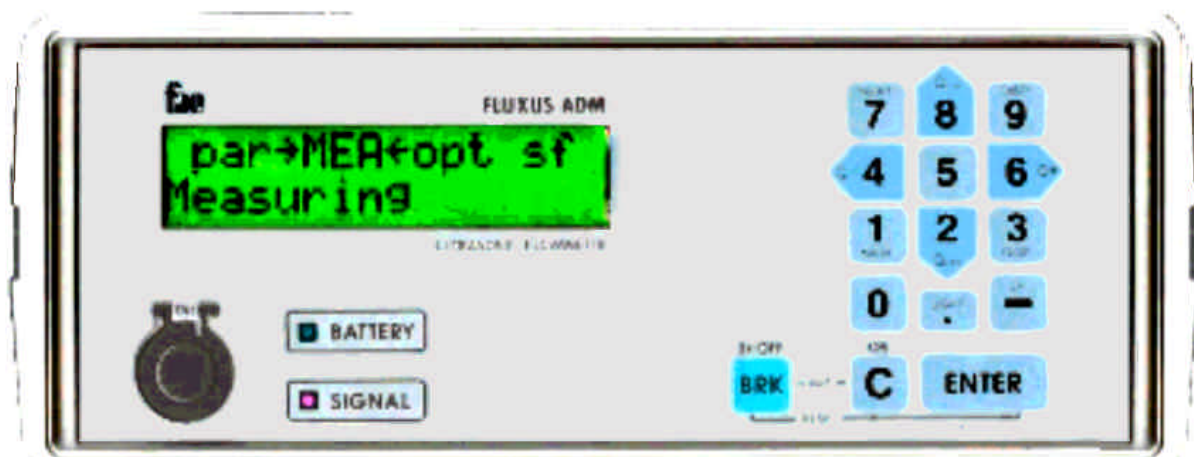




FLUXUS ADM 6725 Ultrasonic flowmeter



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FLUXUS ADM 6725

The portable ultrasonic flowmeter FLUXUS ADM 6725 determines the flow rate of liquid media in closed pipes.

The measurement of flow is based on the principle that sound waves are influenced by the flowing medium.

Measurements are made by penetrating the pipe with ultrasound and subsequently time differences, frequency variations or phase shifts of the ultrasonic signals are evaluated.

This measuring technique has no effect on the flowing liquid.

There is no pressure loss in the pipe and no wear on components of the measuring device.



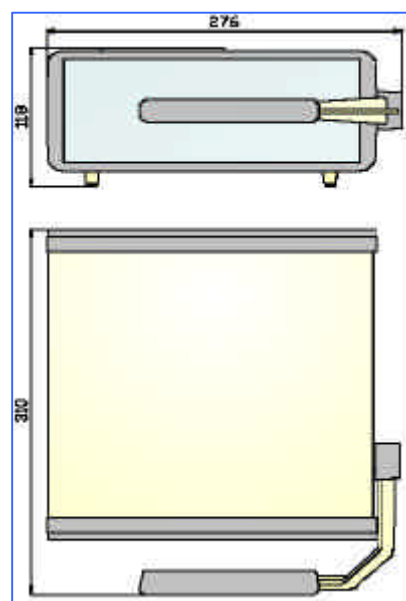
Features:

- ◆ **LOW INSTALLATION EFFORT AND COSTS**
- ◆ **MEASUREMENT IS INDEPENDENT FROM FLUID CONDUCTIVITY AND PRESSURE**
- ◆ **NO PRESSURE LOSS, NO POSSIBILITY OF LEAKAGE**
- ◆ **NO CUTTING OF PIPES NECESSARY, NO INTERRUPTION OF PROCESS, NO PLANT SHUT DOWN**
- ◆ **NO ADDITIONAL FITTINGS FOR MAINTENANCE REQUIRED**
- ◆ **HYGIENIC MEASUREMENT, NO RISK OF CONTAMINATION, SUITABLE FOR ULTRACLEAN LIQUIDS**
- ◆ **NO CONTACT WITH MEDIUM, NO RISK OF CORROSION WITH AGGRESSIVE MEDIA**
- ◆ **COST EFFECTIVE WHEN USED WITH LARGE DIAMETER PIPES, HIGH PRESSURE SYSTEMS, ETC.**
- ◆ **ALL PIPE SIZES ARE COVERED WITH ONLY 2 TYPES OF SENSOR HEAD**

Technical data:

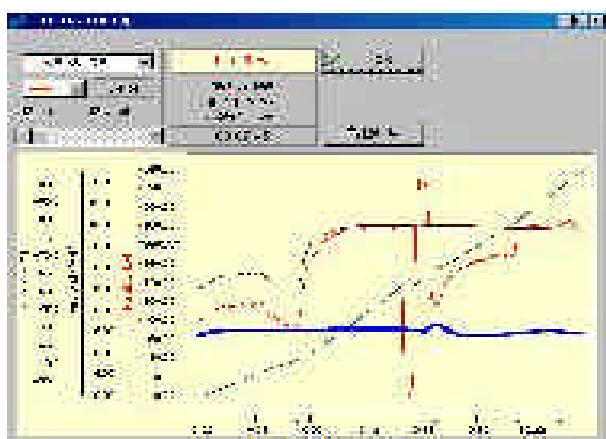
Measuring principle	Ultrasonic time difference correlation principle and NoiseTrek™
Flow velocity range	0.01 ... 25 m/s
Resolution	0.025 cm/s
Repeatability	0.15 % of measured value - 0.015 m/s
Accuracy Volume flow:	± 1 ... 3 % of measured value depending on application
	± 0.5 % of measured value with process calibration
Flow velocity:	± 0.5 % of measured value
Gaseous and solid content	< 10 % of volume

Transmitter:	
Enclosure, degree of protection	Portable, IP 54 acc. to EN60529
Ambient temperature	10 ... 60 °C
Housing material	Aluminium powder coated
Flow channels	two
Power supply	Internal rechargeable battery, 6V/4 Ah or external power supply
Operating time with internal battery	> 14 h
Display	2 x 16 characters, dot matrix, backlit
Dimensions	270 x 100 x 180 mm (without handle)
Power consumption	< 15 W
Signal damping	0 ... 60 s, user configurable
Response time	1 s, optional 70 ms
Measuring cycle	100 ... 1000 Hz, single channel
Calculation functions	Average/difference/sum
Operating languages	Selectable German, English, French, Danish, Dutch, Norwegian, Polish, Czech, Turkish



Quantities of measurement	Volume flow, flow velocity, mass flow, temperature, heat quantity, heat flow
Internal data logger	27,000 values, optional > 100,000 values
Logging data	All measured and totalized values

Communication	RS232
Data	Instantaneous measured value, parameter set and configuration, logged data



Software	FluxData
Functionality	Downloading of measured values/parameter set, graphical presentation, list format, export to third party software, on-line transfer of measured data
Operating systems	Windows TM 3.11, 95, 98, NT

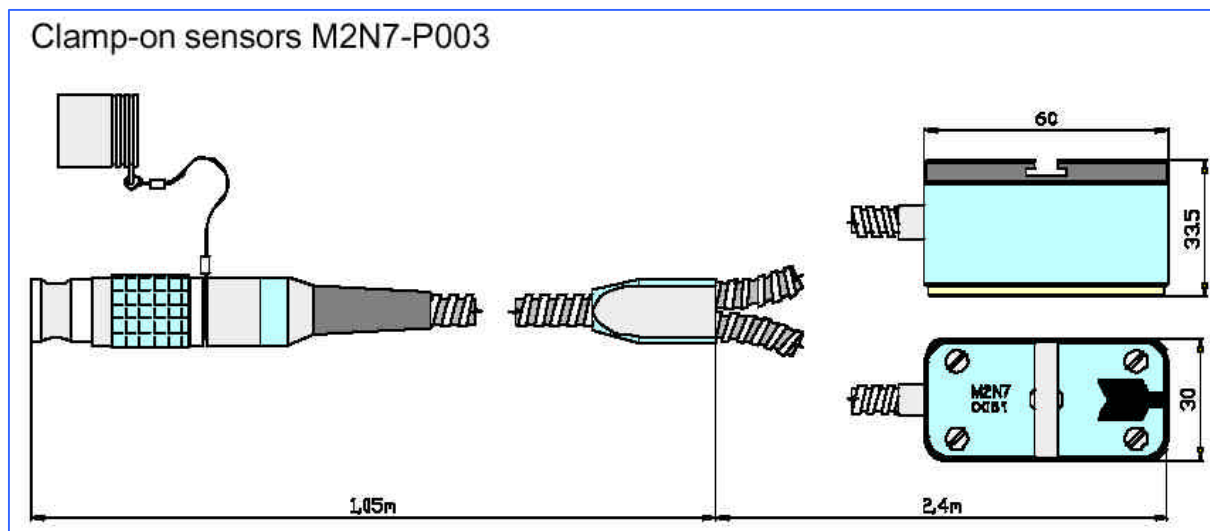
Process inputs	Galvanically isolated from main electronics
- Temperature	PT 100, four-wire circuit, measuring range: - 50 ... 400 °C
- Current	0 ... 20 mA; Ri = 50ohm
- Voltage	0 ... 1 V; Ri = 1Mohm

Process outputs	Galvanically isolated from main electronics
- Current	0/4 ... 20 mA; passive (Uext < 24 V) or active (Rext < 500 W)
- Voltage	0 ... 1 V or 0 ... 10 V, Ri = 500 ohm
- Frequency	0 ... 1 kHz or 0 ... 10 kHz; (OC)
- Digital	(pulse, status) Totalizer: 0.01...1000/unit; width: 80...1000 ms; (OC/Reed)

Clamp-on flow sensors		
Type	Q3N, Q3E	M2N, M2E
Rated (possible) diameter range	(10) 25 ... 400 (1000) mm	(50) 100 ... 6500 mm
Dimensions	16 x 18 x 33 mm	30 x 33 x 60 mm
Material	Stainless steel	
Temperature range XX N	: -30 ... 130 °C	
Temperature range XX E	-30 ... 200 °C, for short periods up to 300 °C	
Degree of protection	IP65 acc. EN60529, IP67 optional	

Wall thickness measurement	
Measuring range	1.0 ... 200 mm
Resolution	0.01 mm
Linearity	0.1 mm
Temperature range Standard version	-20 ... +60°C
High temperature version	0 ...+200°C, for short periods up to +540 °C

Clamp-on sensors M2N7-P003



Clamp-on sensors Q3N7-P002

