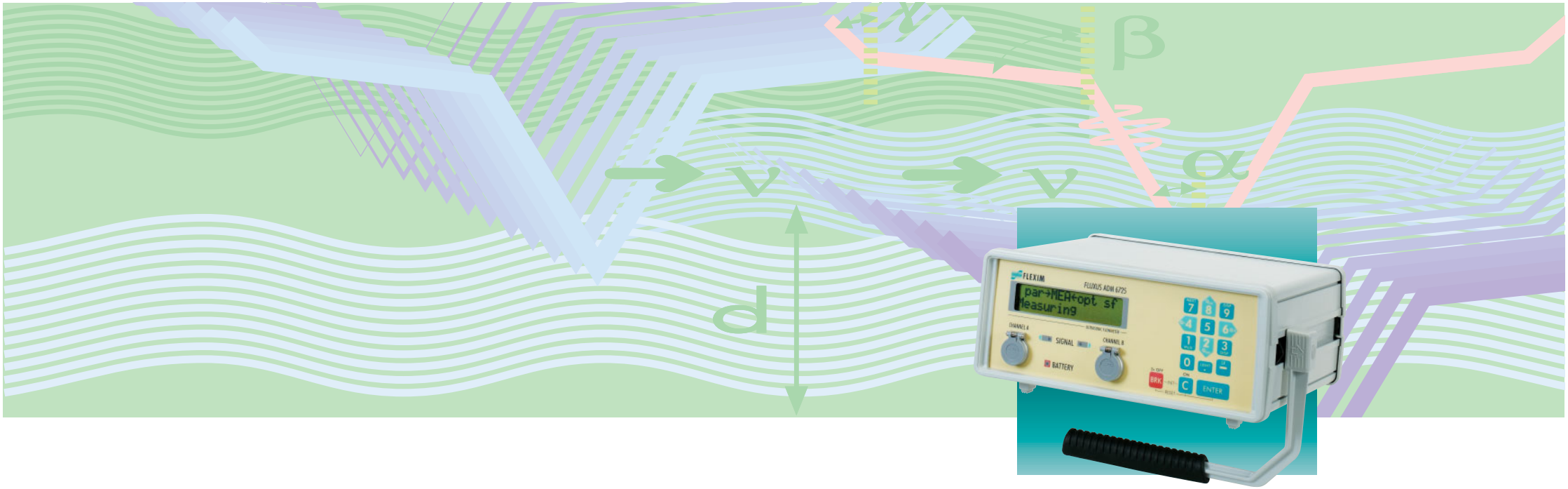
FLUXUS® ADM 6725



...we make ultrasonic flow measurement user friendly!

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Specification subject to change without notice
Refer to the specification sheet for detailed technical specification
BUADM6725V4-1EN

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... You don't need to be a specialist to commission a FLUXUS®!

FLUXUS® ADM 6725 is user-friendly. Its interactive user dialogue is easily understandable and clearly structured. All transducers have been factory calibrated. The transmitter automatically detects them and loads the calibration data, thus helping to avoid input and configuration errors. You will obtain reliable measurements quickly and without having to proceed to zeroing.

... a digital revolution

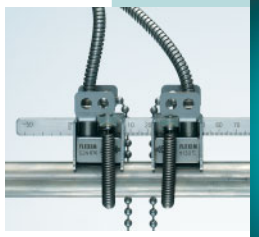
The FLUXUS® ADM 6725 is the first portable ultrasonic flowmeter using the dual µP technology, in which the special digital signal processor (DSP) is supported by a second microprocessor during the complex measuring process. The extremely short measuring cycles make of FLUXUS® the most powerful ultrasonic flowmeter on the market.

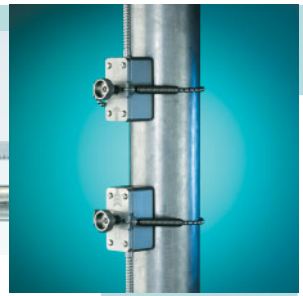
... integrated data logger

Your measuring data does not get lost, even when working without chart recorder or PLC. The data retrieval software FluxData allows you to transmit the measured data to a PC where it can be viewed, stored, printed or converted to other formats.

... protection – were it is needed!

The hermetically sealed stainless steel transducers and the cable conduit are suitable for rugged applications. Watertight sensors and integrated robust transducer cables make it possible to obtain good measurement results over a long period of extensive usage. Only two pairs of transducers are necessary to cover all pipe sizes, thereby contributing to reduce stocking costs. Special transducers for high temperature or for use in explosive atmosphere are available.





... integrated flow computer

Even in the standard version, various options enable you to take into account the pressure, temperature and viscosity of the liquid. You only have to connect a temperature sensor and store the appropriate temperature characteristic curve to obtain a mass flowmeter. Optionally, FLUXUS® can be equipped with a heat calculator. The heat flow rate will be calculated on the basis of experimental enthalpy curves stored in the instrument.

Technical data

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

Transmitter

Enclosure, degree of protection	Portable, IP 54 acc. EN60529
Ambient temperature	-10°C ... 60°C
Housing material	Aluminium powder coated
Number of flow channels	2
Power supply	Internal rechargeable battery, 6 V/4 Ah, or external power supply
Operating time with battery	> 14 h
Display	2 x 16 characters dot matrix, backlit
Process inputs	Temperature (PT 100, 4 wire), current, voltage
Process outputs	Current (0/4 mA ... 20 mA), voltage, frequency, pulse, relay
Serial interface	RS232, RS485 on request
Heat quantity measurement	Optional, max. 4 temperature inputs
Wall thickness measurement	Self-calibrating, wall thickness transducer optional
Internal data logger	> 100,000 values, 15 parameter sets

Clamp-on flow sensors

Transducer type	**M2N, M2E, M3N**
Rated (possible) pipe diameter range	(50) 100 mm ... 2,500 mm; M3N up to 6,500 mm
Housing dimensions	(60 x 30 x 34) mm
Housing material	Stainless steel
Temperature range	M2N: -30°C ... 130°C M2E: -30°C ... 200°C, for short periods up to 300°C
Degree of protection	IP 65 according EN60529 (IP 68 on request)

Transducer type	**Q3N, Q3E**
Rated (possible) pipe diameter range	(10) 25 mm ... 400 mm
Housing dimensions	(43 x 18 x 22) mm
Housing material	Stainless steel
Temperature range	Q3N: -30°C ... 130°C Q3E: -30°C ... 200°C, for short periods up to 300°C
Degree of protection	IP 65 according EN60529 (IP 68 on request)

Wall thickness transducer

Measuring range	1.0 mm ... 200 mm
Resolution	0.01 mm
Linearity	0.1 mm