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ELIS PLZEŇ a. TVPE PROD. No.



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**ULTRASONIC FLOW METERS FLOMIC FL 3005** 



## FLOMIC FL 3005

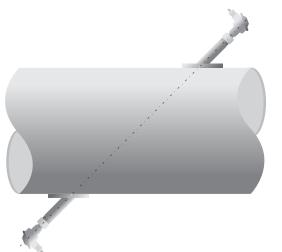
The battery-powered ultrasonic flow meters of the type series FLOMIC FL 3005 with the ultrasonic probes fitted directly into the piping are intended for measurement and storage of data on instantaneous flow rate and total volume of the liquid passed through the metering point in fully-flooded piping oflarge sizes. The measurement principle consists of determination of the difference between the times the ultrasonic waves need to cross the distance between the sender and receiver probes when travelling in and against the flow direction of the measured fluid. Of the measured fluid it is only required that it allows for undisturbed propagation of ultrasonic waves. The high measurement accuracy is achieved thanks to the theoretical calibration performed using the manufacturer's original calibration method. The FLOMIC FL 3005 flow meter does not require an external power source; the guaranteed battery lifetime is 4 years. The electronic accessories of the meter make possible, apart from measurement and visualisation of the data on instantaneous flow rate and aggregate volume of the fluid passed through the meter, storage of the data measured in regular intervals in own data logger, and data communication via standard electric outputs to a master control system.

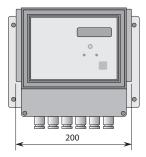
## METER SPECIFICATION

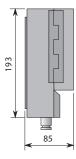
nominal diameter of piping DN	DN 200 to DN 2000
measurement accuracy	$\pm 2\%$ for velocity of the measured liquid v >0.5m/s
nominal pressure PN	max. PN 40
temperature of measured liquid	0 to 150 °C
protection class (electronic unit)	IP 65
protection class (ultrasonic probes)	IP 54 (IP 68)
ultrasonic probes	2 pieces US 2.1 (manufactured by ELIS PLZEÒ a.s.)
probe fitting	directly into piping
flow-rate sampling period	1 sec
display unit	single-line 8-digit LC display
power supply	battery, life time min. 4 years
probe connecting cabbles	max. 20m
output	passive puls e U = 5 to 30V, $I_{max}$ =10mA
communication interface	RS 232
optional accesories	passive current output 4 to 20mA, U <sub>max</sub> = 24V
	communication iterface M-Bus
	storage of measured data
	optical interface, GSM communication
	probe protection class IP 68
	measuring in two directions with indication of measurement direction

## ULTRASONIC PROBES US 2.1 WELDED DIRECTLY INTO PIPING

## **ELECTRONIC UNIT**









ELIS PLZEN a. s., LUCNI 15 P. O. BOX 126, 304 26 PLZEN CZECH REPUBLIC Phone: +420 377 517 711 FAX: +420 377 517 722 e-mail: <u>sales@elis.cz</u> <u>Http://www.elis.cz</u> WELKO Av. Providencia 2330, Of. 63 +56 9 3174 3870 / +56 9 3427 0017 ventas@welko.cl - www.welko.cl