



ELIS PLZEŇ a.s.



ULTRASONIC FLOW METER FLOMIC FL3085

FLOMIC FL3085

The battery-powered ultrasonic flow meter of the type series FLOMIC FL3085 is 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 of large 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 precision is achieved thanks to the calibration of the flow meter performed on a testing rig. The FLOMIC FL3085 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

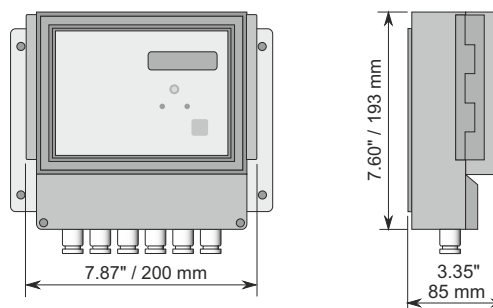
nominal diameter / size	DN200 to DN1200 / 8" to 48"
measurement accuracy EN ISO 4064-1 (OIML R 49) *)	2
nominal pressure [bar / psi]	standard 10 / 150, substandard 16 or 25 / 230 or 300 for DN200 to DN500 / 8" to 20"
temperature of measured liquid	0 °C to 150 °C / 32 °F to 302 °F
protection class (electronic unit)	IP 65
protection class (ultrasonic sensor)	IP 54 (IP 68)
ultrasonic probes	2 pieces US 2.x (manufactured by ELIS PLZEŇ a. s.)
flow-rate sampling period	1 s
display unit	single-line 8-digit LC display
power supply	battery, life time min. 4 years
probe connecting cables	max. 20m / 65.6 ft
output	passive pulse $U = 5$ to $30V$, $I_{max} = 10mA$
communication interface	communication line RS 232
optional accessories	passive current output 4 to 20mA, $U_{max} = 24V$ storage of measured data optical interface, GSM communication probe protection class IP 68 measuring in two directions with indication of measurement direction

*) optional measurement accuracy $\pm 1\%$ for velocity of the measured liquid $v > 0.5$ m/s / 1.64 ft/s

ULTRASONIC SENSOR



TRANSMITTER



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