



ELIS PLZEŇ a.s.



ELECTROMAGNETIC FLOWMETER **FLONET FN30xx**

Electromagnetic flow meters of the FLONET FN30xx type series are intended for professional application and measurement of flow rates of electrically conductive liquids in water industry. They meet the most demanding requirements on high measurement accuracy, long-term stability and hygienic standard. Measurements in both directions of flow are possible. The meter sensor has no movable mechanical parts and its inclusion in the piping system will have no effect on the hydraulic or pressure flow conditions. The converter unit provides for sensor energizing and processing of the sensor signals, detection of empty piping, internal meter status diagnostics and selection of flow units in data visualization. The flow meter has pulse and current outputs, as well as interface to the RS485 communication line with communication protocol MODBUS.

FLOW METER BASIC SPECIFICATION (...others on request)

nominal diameter	DN15 to DN1200 ...
nominal pressure [bar]	6, 10, 16, 25, 40
min. conductivity of measured liquid	20 μ S/cm
electrode material	stainless steel, grade 1.4571 (316Ti), Hastelloy C276, ...
sensor lining	hard rubber, rubber for drinking water, PTFE, ...
ambient temperature	-20°C to +60°C
converter working environment humidity	5 to 90%
electrical outputs	pulse, frequency, current 4 to 20 mA, insulated
detection of empty pipe	YES
alarm function	YES
design version	compact (FN3014), remote (FN3015)
connection	flanged EN/ANSI/....
measurement range (velocity)	0,04 to 10 m/s ...
measurement range (Q3/Q1)	R= 200 (min) ...
measurement accuracy class	2 acc. to EN ISO 4064-1 (OIML R 49)
communication	RS485, MODBUS RTU, ...
power supply	85 to 250 V AC or 20 to 36 V DC

RATED INTERNAL DIAMETER, SENSOR LENGTH AND DIAMETER OF CONVERTOR

Size DN	Nominal/Max Pressure (bar)	L (mm)	H compact (mm)	H remote (mm)
15	PN40	200	332	220
20		200	332	220
25		200	335	223
32		200	352	240
40		200	362	250
50		200	375	263
65	PN16/PN40	200	395	283
80		200	402	290
100		250	422	310
125		250	452	340
150		300	485	373
200		350	542	430
250	PN10/PN25	450	607	495
300		500	652	540
350		550	707	595
400		600	770	658
450		600	820	708
500		600	872	760
600		600	994	882
700		700	1094	982
800	PN6/PN16	800	1204	1092
... up to 1200		1200	1600	1488

