

Solenvis

experts in energy metering



ELIS PLZEŇ a.s.



INDUCTION FLOW METERS FLONET FN 20XX

FLONET FN 20XX

Induction flow meters of the FLONET FN 20XX type series are intended for professional application and measurement of flow rates of electrically-conductive liquids in water and heat-supply systems, food-processing and chemical industries. 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 energising and processing of the sensor signals, and also offers functions of liquid batching control, detection of empty piping, internal meter status diagnostics, automatic cleaning of electrodes and selection of flow units in data visualisation. The flow meter has frequency, pulse and current outputs, as well as interfaces to the USB and RS 485 communication lines.

METER SPECIFICATION

nominal diameter DN	DN 6 to DN 1200
nominal pressure PN	6, 10, 16, 25 or 40 (related to DN)
min. conductivity of measured liquid	20 μ S/cm, on agreement with the manufacturer down to 5 μ S/cm
electrode material	stainless steel 1.4571, Hastelloy-C4, platinum, tantalum
ambient temperature	-5°C to 55°C
sensor lining	soft or hard rubber, Teflon
design version	compact or with remote electronic unit
piping connection	flanges or wafer
max. temperature of measured liquid	up to 150°C, depending on sensor lining
measurement accuracy	\pm 0.2% for 10 to 100% q_s \pm 0.5% for 5 to 100% q_s
measuring range	0.1 to 10 m/s
indication of empty piping	from DN 50 upwards
displayed units	l, m ³ , US gal, US bbl
outputs (insulated)	current (0) 4 to 20mA frequency 0 to 1,000Hz pulse, 0.001 to 1,000 litres per pulse communication line USB, RS 485
power supply	24/115/230V \pm 10%, 50 to 60Hz (AC), 24V \pm 10% (DC)
protection class	IP 67 (IP 68)

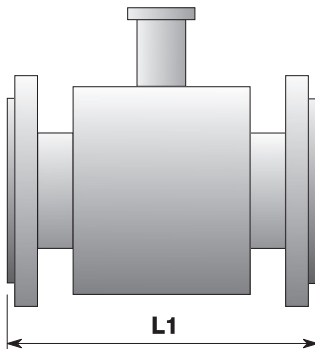
DESIGN VERSION, CONFIGURATION AND TYPE DESIGNATION

design version	COMPACT		REMOTE	
configuration	ECONOMIC	COMFORT	ECONOMIC	COMFORT
type designation - flanged	FN 2010	FN 2014	FN 2011	FN 2015
- wafer	FN 2020	FN 2024	FN 2021	FN 2025

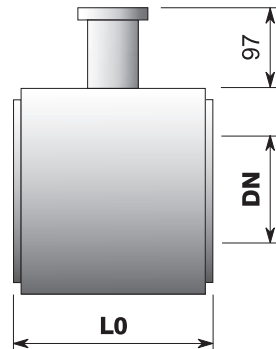
RATED INTERNAL DIAMETER AND SENSOR LENGTH [mm]

PN	40		16		10				6							
DN	20	25-40	50-80	100	125	150	200	250	300	350	400-600	700	800	900	1,000	1,200
L1	200	200	200	250	250	300	350	450	500	550	600	700	800	900	1,000	1,200
L0	74	104	104	104	134	134	219	-	-	-	-	-	-	-	-	-

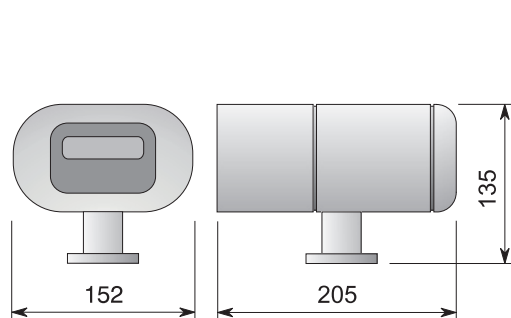
FLANGED VERSION



WAFER VERSION



ELECTRONIC UNIT



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