



ELIS PLZEŇ a.s.



**INDUCTION FLOW METERS FLONET FF10XX.1**

# FLONET FF10XX.1

Induction flow meters of the type series FLONET FF10XX.1 are intended for professional flow-rate measurements of electrically conductive fluids in the food-processing and chemical industries. The meters meet most demanding requirements regarding measurement accuracy, long-term parameter stability and hygienic suitability. Flow-rate measurements in both directions are possible. The flow sensor includes no movable mechanical parts and its effect on the fluid flow characteristic or pressure in the connecting piping is negligible. The associated electronic unit supplies power to the sensor unit and processes the flow-rate signals. The meter also has a dosing-control function, performs internal diagnostics and makes possible selection of physical units for the quantities displayed. The meter has frequency, impulse and current outputs, and can be connected to external electronic devices via the USB or RS 485 communication lines.

## TECHNICAL PARAMETERS

nominal diameter / size	10 to 100mm / 1/2" to 4" (Clamp)
nominal pressure [bar / psi]	10 / 150
min. conductivity of measured fluid	20µS/cm, on special requirement 5µS/cm
max. temperature of measured fluid	+150°C (302°F)
electrode material	Hastelloy-C4 on special requirement platinum or tantalum
sensor lining	PTFE
connections	Tri Clover (ASME BPE) screw fittings for food-processing applications (DIN 11851)
design version	compact or with remote electronic control unit
measurement accuracy	±0,5% for flow rates 5 to 100% $q_s$
measurement range	0,1 to 10m/s
signal and communication outputs	insulated current output (0) 4 to 20mA insulated frequency output 0 to 1,000Hz insulated impulse output 0.1 to 1,000l/imp insulated communication interfaces USB and RS 485
power source	24/115/230V AC +10 - 15%, 50 to 60Hz, 15VA, 24VDC +10 - 15%
ambient temperature	-5 to +55°C (23° to 131°F)
protection class	IP 67 (IP 68)

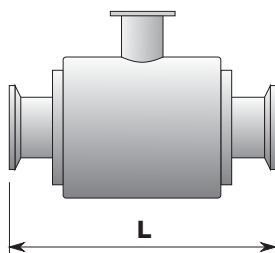
## DESIGN VERSION, CONFIGURATION AND TYPE DESIGNATION

design version	COMPACT		REMOTE	
configuration	ECONOMIC	COMFORT	ECONOMIC	COMFORT
type designation	FF10X0.1	FF10X4.1	FF10X1.1	FF10X5.1

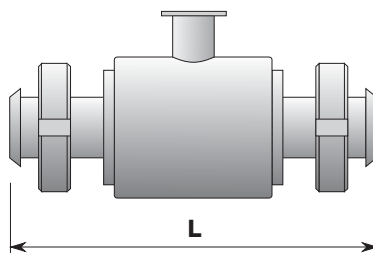
## RATED INTERNAL DIAMETER AND SENSOR LENGTH

diameter	L [mm / inch]																	
	10	15	20	25	32	40	50	65	80	100	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3 "	4"
Tri Clover (ASME BPE)	-	-	-	-	-	-	-	-	-	-	145	145	145	145	145	200	200	200
DIN11851	170	170	170	225	225	225	225	280	280	280	-	-	-	-	-	-	-	-

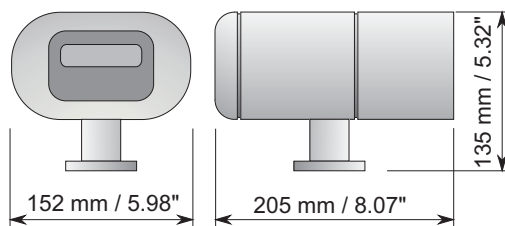
### TRI CLOVER



### FOOD INDUSTRY THREAD



### ELECTRONIC UNIT



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