

**ELECTROMAGNETIC FLOW METERS FLONET FN50xx.2** 

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ELIS PLZEŇ a.s.

ELIS PLZEŇ a.s.

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ELIS PLZEŇ a.s.

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# FLONET FN50xx.2

Electromagnetic flow meters FLONET FN50xx.2 are mainly intended for flow measuring section of measurement in heat or cold systems or simpler for flow measurement of liquids in technological applications. The condition of measurement flow rate is minimum required electrical conductivity of the medium. They meet the most demanding requirements on high measurement accuracy, long-term stability and hygienic standard. 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. For transfer information of measured volume and the possibility of evaluating the current flow rate are flow meters equipped a pulse output and communicaton interface RS-485 ModBus RTU.

#### METER SPECIFICATION

nominal diameter / sizeflanged DN15 to DN800 / 1/2" to 32"; wafer DN25 to Dn200 / 1" to 8"nominal pressure [bar / psi]10, 16, 40 (related to diameter) / 150, 300, 600 (related to size)min. conductivity of measured liquid20µS/cm, on agreement with the manufacturer down to 5µS/cmelectrode materialStainless steel, grade 1.4571 (316Ti), Hastelloy C276, Titanium, Tantalum, Platinum-Rhodium (PtRh10)sensor liningsoft rubber, hard rubber, rubber for drinking water, PTFE, E-CTFEdesign versioncompact or with remote electronic unitpiping connectionflanges or wafermax. temperature of measured liquid - technological applicationsup to 150°C (302°F), depending on sensor liningaccording to EN 1434, class. accuracy 2 ±1 % to 0.5 to 100 % qs ±0.2 % to 10 to 100 % qs (surcharge)measuring range power consumption0.05 to 10 m/spower consumption6 VA max		
min. conductivity of measured liquid $20\mu$ S/cm, on agreement with the manufacturer down to $5\mu$ S/cmelectrode materialStainless steel, grade 1.4571 (316Ti), Hastelloy C276, Titanium, Tantalum, Platinum-Rhodium (PtRh10)sensor liningsoft rubber, hard rubber, rubber for drinking water, PTFE, E-CTFEdesign versioncompact or with remote electronic unit flanges or wafermax. temperature of measured liquidup to 150°C (302°F), depending on sensor liningmeasurement accuracy: - measurement of heat and cold - technological applicationsaccording to EN 1434, class. accuracy 2 ±1 % to 0.5 to 100 % qs ±0.5 % to 5 to 100 % qs ±0.2 % to 10 to 100 % qs (surcharge)measuring range0.05 to 10 m/s	nominal diameter / size	flanged DN15 to DN800 / 1/2" to 32"; wafer DN25 to Dn200 / 1" to 8"
electrode materialStainless steel, grade 1.4571 (316Ti), Hastelloy C276, Titanium, Tantalum, Platinum-Rhodium (PtRh10)sensor liningsoft rubber, hard rubber, rubber for drinking water, PTFE, E-CTFEdesign versioncompact or with remote electronic unitpiping connectionflanges or wafermax. temperature of measured liquidup to 150°C (302°F), depending on sensor liningmeasurement accuracy: - measurement of heat and cold - technological applicationsaccording to EN 1434, class. accuracy 2 ±1 % to 0.5 to 100 % qs ±0.5 % to 5 to 100 % qs ±0.2 % to 10 to 100 % qs (surcharge)measuring range0.05 to 10 m/s	nominal pressure [bar / psi]	10, 16, 40 (related to diameter) / 150, 300, 600 (related to size)
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piping connectionflanges or wafermax. temperature of measured liquidup to 150°C (302°F), depending on sensor liningmeasurement accuracy: - measurement of heat and cold - technological applicationsaccording to EN 1434, class. accuracy 2 ±1 % to 0.5 to 100 % q_s ±0.5 % to 5 to 100 % q_s ±0.2 % to 10 to 100 % q_s (surcharge)measuring range0.05 to 10 m/s	sensor lining	soft rubber, hard rubber, rubber for drinking water, PTFE, E-CTFE
max. temperature of measured liquid       up to 150°C (302°F), depending on sensor lining         measurement accuracy:       - measurement of heat and cold         - technological applications       according to EN 1434, class. accuracy 2         ±1 % to 0.5 to 100 % qs         ±0.5 % to 5 to 100 % qs         ±0.2 % to 10 to 100 % qs         ±0.2 % to 10 m/s	design version	compact or with remote electronic unit
measurement accuracy: - measurement of heat and cold - technological applicationsaccording to EN 1434, class. accuracy 2 ±1 % to 0.5 to 100 % q_s ±0.5 % to 5 to 100 % q_s ±0.2 % to 10 to 100 % q_s (surcharge)measuring range0.05 to 10 m/s	piping connection	flanges or wafer
<ul> <li>measurement of heat and cold</li> <li>technological applications</li> <li>according to EN 1434, class. accuracy 2 ±1 % to 0.5 to 100 % q<sub>s</sub> ±0.5 % to 5 to 100 % q<sub>s</sub> ±0.2 % to 10 to 100 % q<sub>s</sub> (surcharge)</li> <li>measuring range</li> <li>0.05 to 10 m/s</li> </ul>	max. temperature of measured liquid	up to 150°C (302°F), depending on sensor lining
	- measurement of heat and cold	±1 % to 0.5 to 100 % q₅ ±0.5 % to 5 to 100 % q₅
nower consumption 6 VA max	measuring range	0.05 to 10 m/s
	power consumption	6 VA max.
outputs pulse, frequency, binary with galvanic insulated	outputs	pulse, frequency, binary with galvanic insulated
communication interface RS-485 ModBus RTU	communication interface	RS-485 ModBus RTU
ambient temperature -5°C to 55°C (23° to 131°F)	ambient temperature	-5°C to 55°C (23° to 131°F)
power supply 90 - 264 VAC /47 to 440 Hz	power supply	90 - 264 VAC /47 to 440 Hz
protection class IP 65	protection class	IP 65

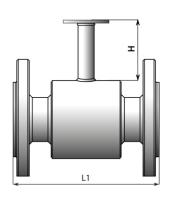
### DESIGN VERSION, CONFIGURATION AND TYPE DESIGNATION

design version	COMPACT	REMOTE	SENSOR	H [mm]	APPLICATION					
type designation - flanged	FN5030.2	FN5031.2	ISX.MXX	104	for heat					
- wafer	FN5040.2	FN5041.2	IS0.MXX	104	meters					
type designation - flanged	FN5010.2	FN5011.2	ISX.1XX	97	for cold met.					
- wafer	FN5020.2	FN5021.2	IS0.1XX	97	and other appl.					

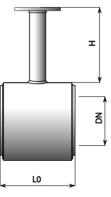
### RATED INTERNAL DIAMETER AND SENSOR LENGTH [mm]

pressure	40 ba	ar	16 bar				10 bar				6 bar		
diameter [mm]	20	25-50	65-80	100	125	150	200	250	300	350	400-600	700	800
L1 [mm]	200	200	200	250	250	300	350	450	500	550	600	700	800
L0 [mm]	74	104	104	104	134	134	219	-	-	-	-	-	-

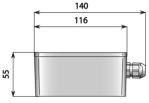
### FLANGED VERSION

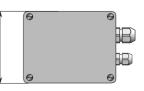


## WAFER VERSION



### ELECTRONIC UNIT





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ELIS PLZEŇ a. s. LUCNI 425/15, 301 00 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>