



FlowGuard® FT407

Magnetic inductive flow meter

Item no. 1317/[Diameter]/ [Process connection]/ [Display]/ [Output signal]

Description

The FlowGuard® FT407 magnetic inductive flow meter is used for bidirectional flow measurement of liquid media, from drinking water to chemically aggressive media, in a temperature range up to 70°C.

In addition to a pulse output, the sensor has a 4 ... 20 mA analog output for transmitting the volume flow and quantity measurement. The built-in LCD and two status LEDs show the sensor status at all times. The process connection can be designed as a thread or clamp according to DIN 32676/ DIN 11851.

Product highlights

- 900 measurements per second enable precise dosing processes
- Meets the highest demands for measurement accuracy (2% of the measured value) and repeatability (0.5%)
- Can be used at media temperatures up to 70°C
- Wide measuring range from 0.02 m³/hr to
 25 m³/h depending on pipe diameter (DN4...DN32)
- IO-Link and Bluetooth communication possible
- 2 freely configurable outputs
- High operating convenience thanks to integrated LCD
- Compact design for use in small installation spaces

Areas

The FlowGuard® FT407 is used in a wide range of industrial applications. With 900 measurements per second and a repeat accuracy of 0.5%, it is particularly suitable for dosing processes, e.g. in the pharmaceutical, food, and chemical industries. The compact design of the FlowGuard® FT407 allows it to be used in the smallest of spaces. Communication via IO-Link or Bluetooth makes installation and commissioning even more convenient.

Phone: +49 2058 2044

Email: info@seikom-electronic.com





General information

Areas of application Liquids (min. conductivity

20 µS/cm)

Device type Magnetic inductive flow

meter

Device design Compact device

Flow measurement range 0.2 ... 10 m/s

Bidirectional measurement

Flow measurement accuracy 1% at 1 ... 10 m/s

(repeatability 0.5%) 2% at 0.2 ... 1 m/s (repeatability 0.5%)

Flow medium temperature Max. 70°C

(higher temperatures on

request)

Pressure PN25

Display LCD display (optional)

Protection class of evaluation

unit

Protection class sensor IP65

Special Up to 90% ambient

humidity

IP65

Outputs/inputs

Output Pulse output, analog

log output, digital output

Specification Analog signal 4 ... 20mA

Pulse output/current

switch

Specification Digital output IO-Link

Mechanical data

Diameter DN04 ...32 (other

diameters available on

request)

Process connection Thread (EN ISO 228-1)

Milk pipe fitting DIN11851

Clamp DIN32676

Pipe cladding material PVDF

Material of the evaluation unit Stainless steel or

steel ST37 (coated)

Electrode material CrNi steel DIN 1.4571

Electrical

Power supply 24 VAC/ VDC

overload protection

Tolerance Operating voltage ± 19

Electrical connection M12 connector, 4-pin

Power consumption max. 3 VA

Electrical connection

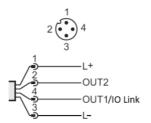
Standard cable connection

PIN 1 - +Vdd (24VDC±15%)

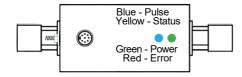
PIN 2 – configurable output OUT2 (PNP open collector- Positive potential)

PIN 3 - GND

PIN 4 - IO-LINK/ configurable output OUT1



Display



LED1	LED2	Description	Current output
green	-	The meter is in good order and the flow is null or negative	4mA
green	blue LED is flashing	The meter is in good order and the flow is positive where the blue LED is indicating the transmission of volumetric pulses	4÷20mA
ed LED	-	Meter is out of order, service necessary	<4mA
ed LED	yellow LED	Meter is temporarily beyond parameters	<4mA
-	-	Supply voltage error	-



Order number

Item number		1317/
Diameter		
See table "Available measuring ranges"	DN04 32	
Process connection		
Thread (EN ISO 228-1)	G	
Milk pipe screw	M	
connection (DIN11851)		
Clamp (DIN32676)	С	
Display		
with out Display	0	
LCD	L	
Bluetooth	В	
Output signal		
IO-Link+ Pulse output	1	
IO-Link+ Analog output	2	
(420 mA)		

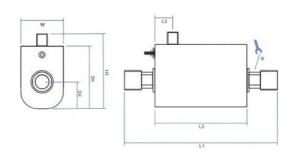
Table with flow ranges for individual DN sizes

Diameter nominal [mm]	Qmin [m3/h]	Qmax [m3/h]		
DN 4	0.02	0.5		
DN 6	0.03	1		
DN 8	0.04	2		
DN 10	0.06	3		
DN 15	0.2	7		
DN 20	0.25	10		
DN 25	0,35	15		
DN 32	0,6	25		

Diameter nominal [mm]	Threaded connection	L1	L2	L3	w	Н1	Н2	Н3	К	Compact flow meter weight (kg)
4	1/2"	161	97	16.5	49	80	70	32	17	1.2
6	1/2"	161	97	16.5	49	80	70	32	17	1.2
8	1/2"	161	97	16.5	49	80	70	32	17	1.2
10	1/2"	161	97	16.5	49	80	70	32	17	1.1
15	1/2"	161	97	16.5	49	80	70	32	17	1
20	3/4"	161	97	16.5	49	80	70	32	22	1
25	1"	209	117	26,5	60	97	83	40	27	1,5
32	1 1/4"	209	117	26,5	70	97	83	40	36	2

Basic device sizes

Threaded design





SEIKOM Electronic GmbH & Co KG Phone: +49 2058 2044

Gold-Zack-Straße 7 D-40822 Mettmann Email: info@seikom-electronic.com