

Application Low Flow

Flow Transmitter

Technical Data

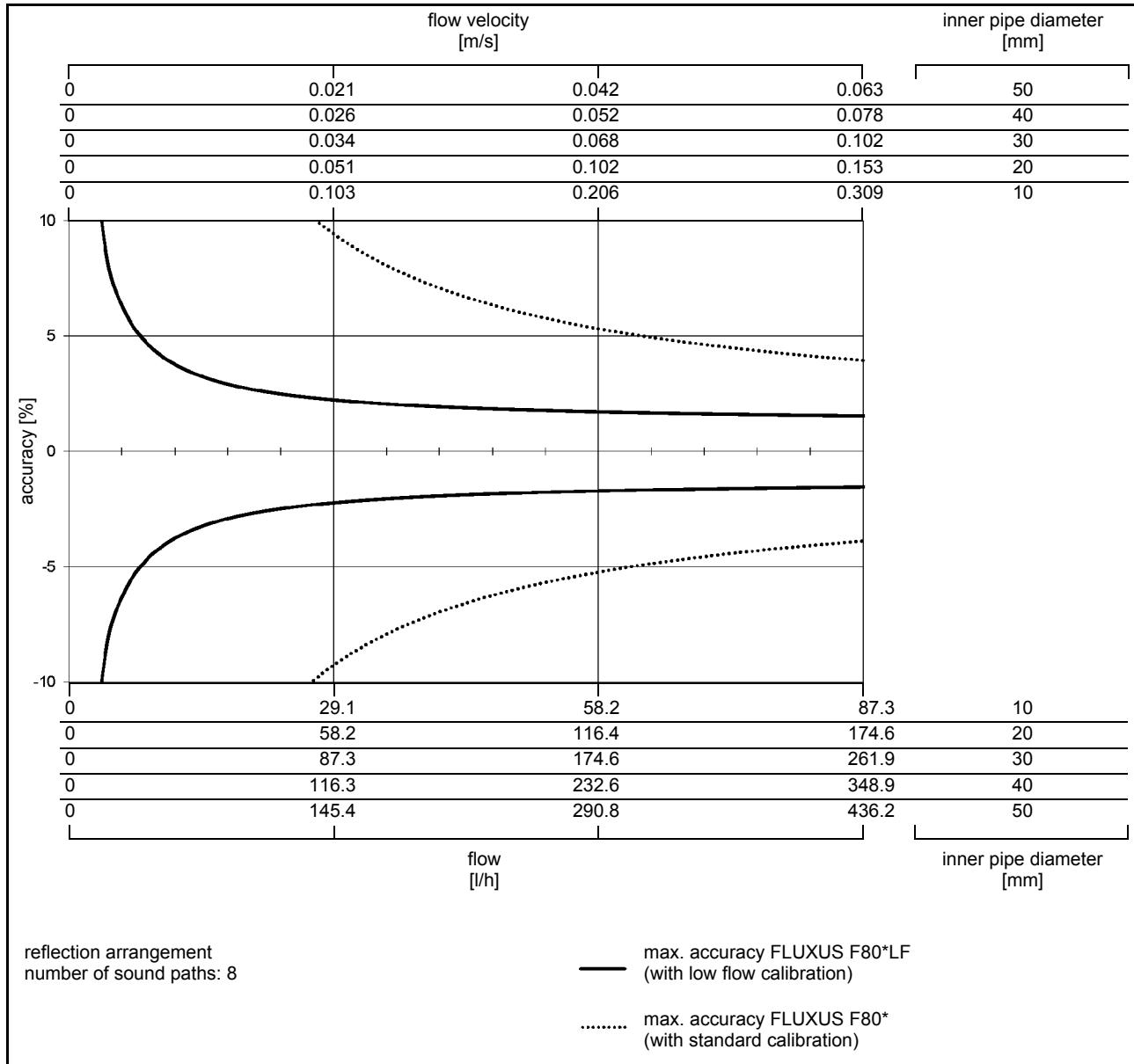
FLUXUS	F808LF-A1	F801LF-A1			ADM 8127C24			
design	explosion proof field device	explosion proof offshore device	active current outputs, binary outputs	passive current outputs, binary outputs	frequency output, binary output			
application	extreme low flow measurement for liquids							
transducers	CDQ*N**							
transducer mounting fixture	Variofix L with bolt mounting plate VLQ-DS-B (outer pipe diameter ≤ 48 mm) Variofix L VLQ-DS-S (outer pipe diameter > 48 mm)							
								
measurement								
measurement principle	transit time difference correlation principle							
flow velocity	depending on pipe diameter, see diagrams							
medium	all acoustically conductive liquids with < 2 % gaseous or solid content in volume							
temperature compensation	corresponding to the recommendations in ANSI/ASME MFC-5.1-2011							
accuracy	depending on pipe diameter, see diagrams							
flow transmitter								
power supply	100...240 V/ 50...60 Hz or 20...32 V DC	100...240 V/50...60 Hz or 20...32 V DC or on request: 11...16 V DC			24 V DC ±10 %			
power consumption	< 8 W	< 8 W						
number of flow measuring channels	1							
damping	0...100 s, adjustable							
measuring cycle	100...1000 Hz							
response time	1 s							
housing material	cast aluminum, special offshore coating	stainless steel 316/316L (1.4401, 1.4404, 1.4432)						
degree of protection according to IEC/EN 60529	IP66							
dimensions	see dimensional drawing							
weight	5.3 kg	8.5 kg						
fixation	wall mounting, 2" pipe mounting							
operating temperature	-30...+60 °C (< -20 °C without operation of the display)	-20...+60 °C			-20...+50 °C			
display	2 x 16 characters, dot matrix, backlight							
menu language	English, German, French, Dutch, Spanish							

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explosion protection									
ATEX / IECEx	zone	1	1	1					
	marking	CE 0637 II2G II2D Ex db e IIC T6 Gb Ex tb IIIC T 100 °C Db Ta -40...+60 °C	CE 0637 II2G II2D Ex d e IIC T6 Gb Ex tb IIIC T 100 °C Db Ta -20...+60 °C	CE 0637 II2G Ex d e [ib] IIC T4 Gb Ta -20...+50 °C					
	certification ATEX	IBExU11ATEX 1022 X	IBExU05ATEX1078	IBExU05ATEX1078					
	certification IECEx	IECEx IBE 11.0006X	IECEx IBE 12.0020						
	type of protection	gas: electronics compartment: flameproof enclosure connection compartment: increased safety dust: protection by enclosure	gas: electronics compartment: flameproof enclosure connection compartment: increased safety dust: protection by enclosure	electronics compartment: flameproof enclosure connection compartment: increased safety output circuits: intrinsic safety					
	intrinsic safety parameters	-	-	U _m = 250 V AC intrinsically safe outputs: U _i = 28.2 V P _i = 0.76 W L _i , C _i negligible					
	measuring functions								
physical quantities	volumetric flow rate, mass flow rate, flow velocity								
totalizer	volume, mass								
diagnostic functions	sound speed, signal amplitude, SNR, SCNR, standard deviation of amplitudes and transit times								
data logger									
loggable values	all physical quantities, totalized values and diagnostic values								
capacity	> 100 000 measured values								
communication									
interface	- process integration (optional): Modbus RTU or HART - diagnosis: RS232 ¹	- process integration (optional): RS485 (emitter) or Modbus RTU - diagnosis: RS232 ¹	- process integration (optional): RS485 (emitter) or Modbus RTU or HART - diagnosis: RS232 ¹	- diagnosis: RS232 ¹	- diagnosis: RS232 ¹				
serial data kit (optional)									
software (all Windows™ versions)	- FluxData: download of measurement data, graphical presentation, conversion to other formats (e.g. for Excel™) - FluxDiag (optional): online diagnostics and report generation - FluxKoef: creating fluid data sets - FluxSubstanceLoader: upload of fluid data sets								
cable	RS232 ¹								
adapter	RS232 - USB ¹								

¹ connection of the interface RS232 outside of explosive atmosphere (housing cover open)

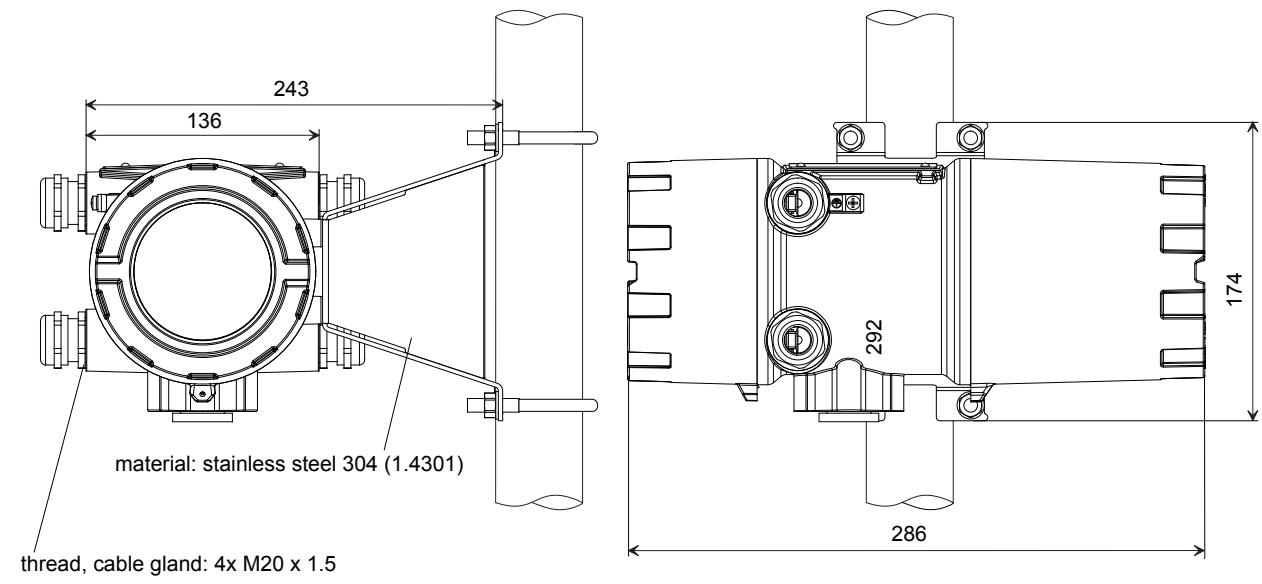
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outputs									
	The outputs are galvanically isolated from the transmitter.								
number	current output: 1 binary output: 1 or current output: 1 Modbus or current output: 1/ HART binary output: 1	active current output: 1...2 and binary output (open collector): 1...2 or active current output: 1...2 and binary output (open collector): 1 and binary output (Reed relays): 1	passive current output: 1...2 and binary output (open collector): 1...2 or passive current output: 1...2 and binary output (open collector): 1 and binary output (Reed relays): 1	frequency output: 1 and binary output (open collector): 1	passive current output: 1 and binary output (open collector): 1				
current output									
current output I1, (I2)	0/4...20 mA 0.1 % of reading $\pm 15 \mu A$ $R_{ext} < 500 \Omega$ $U_{ext} = 4...26.4 V$, depending on R_{ext} $R_{ext} < 1 k\Omega$	0/4...20 mA 0.1 % of reading $\pm 15 \mu A$ $R_{ext} < 500 \Omega$ -	0/4...20 mA 0.1 % of reading $\pm 15 \mu A$ -	-	4...20 mA 0.1 % of reading $\pm 15 \mu A$ -				
current output I1 in HART mode	4...20 mA $U_{ext} = 7...30 V$ DC $U_{int} = 24 V$	-	4...20 mA $U_{ext} = 10...24 V$	-	-				
frequency output									
- range - passive output	- -	- -	- -	0...5 kHz 30 V/100 mA $I_{off} = 0.8 mA$ optional: 8.2 V DIN EN 60947-5-6 (NAMUR)	- -				
binary output									
Reed relay open collector	- 24 V/4 mA optional (only in combination with HART): 30 V/100 mA or 8.2 V DIN EN 60947-5-6 (NAMUR)	48 V/100 mA 24 V/4 mA	48 V/100 mA 24 V/4 mA	- 30 V/100 mA $I_{off} = 0.8 mA$	- 24 V/4 mA intrinsic safety				
binary output as alarm output - functions	limit, change of flow direction or error								
binary output as pulse output - pulse value - pulse width	0.01...1000 units 80...1000 ms								

Diagrams

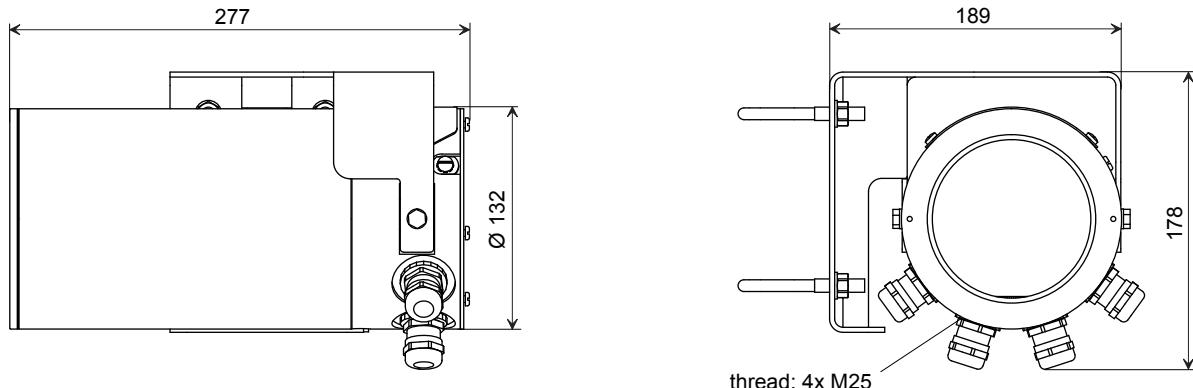


Dimensions

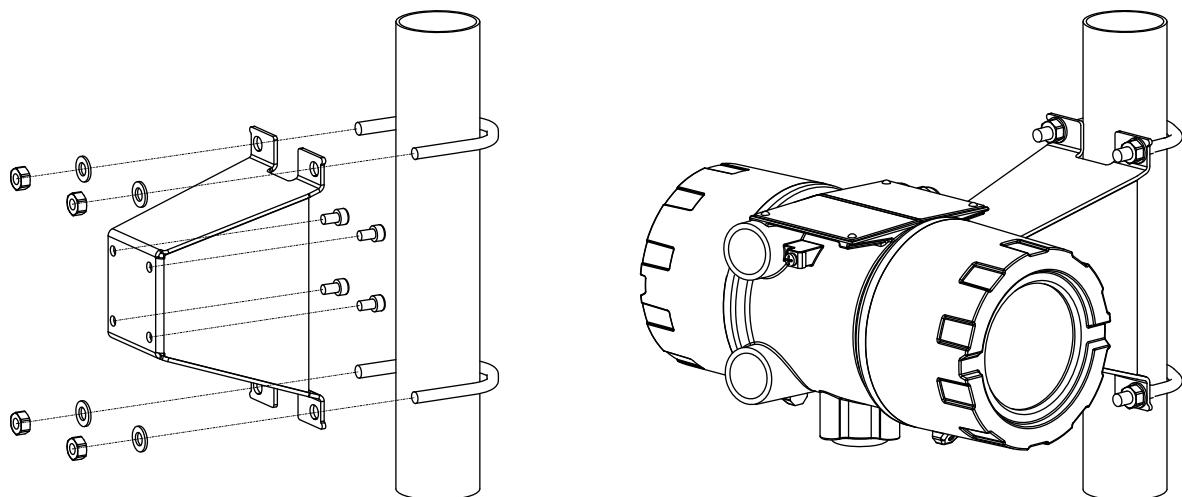
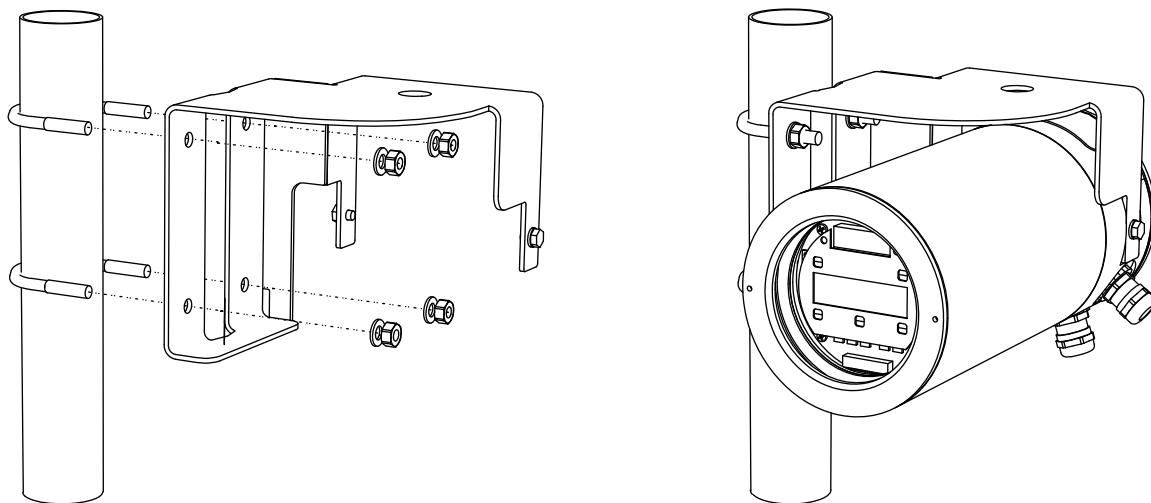
FLUXUS F808



FLUXUS F801, ADM 8127



in mm

Wall and 2 " Pipe Mounting Kit**FLUXUS F808****FLUXUS F801, ADM 8127**

FLEXIM GmbH
Wolfener Str. 36
12681 Berlin
Germany
Tel.: +49 (30) 93 66 76 60
Fax: +49 (30) 93 66 76 80

internet: www.flexim.com
e-mail: info@flexim.com

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