



Flow transmitter FLUXUS G800SR-A1, G801SR-A1

Technical data

FLUXUS	G800SR-A1	G801SR-A1
design	SIL	
		
<b>measurement</b>		
measurement principle	transit time difference correlation principle	
flow velocity	0.01...35 m/s, depending on pipe diameter	
repeatability	0.15 % of reading $\pm 0.01$ m/s	
fluid	all acoustically conductive gases, e.g. nitrogen, air, oxygen, hydrogen, argon, helium, ethylene, propane	
temperature compensation	corresponding to the recommendations in ANSI/ASME MFC-5.1-2011	
<b>accuracy</b>		
volumetric flow rate	$\pm 1...3$ % of reading $\pm 0.01$ m/s depending on application $\pm 0.5$ % of reading $\pm 0.01$ m/s with field calibration	
<b>flow transmitter</b>		
power supply	100...230 V/50...60 Hz or 20...32 V DC	
power consumption	< 10 W	< 8 W
number of flow measuring channels	1, optional: 2	
damping	0...100 s, adjustable	
measuring cycle (1 channel)	100...1000 Hz	
response time	1 s (1 channel), option: 70 ms	
housing material	cast aluminum, powder coated	stainless steel 316/316L (1.4401, 1.4404, 1.4432)
degree of protection according to IEC/EN 60529	IP66	
dimensions	see dimensional drawing	
weight	6 kg	6.6 kg
fixation	wall mounting, 2" pipe mounting	
ambient temperature	-20...+60 °C	-20...+50 °C
display	2 x 16 characters, dot matrix, backlight	
menu language	English, German, French, Dutch, Spanish	
<b>explosion protection</b>		
A T E X / I I E C E x	zone	1
	marking	CE 0637 Ex II2G Ex db eb IIC T6 Gb T <sub>a</sub> -20...+60 °C
		CE 0637 Ex II2G Ex II2D Ex d e IIC T6 Gb Ex tb IIIC T 100 °C Db T <sub>a</sub> -20...+60 °C
	certification ATEX	IBExU01ATEX1064
	certification IECEx	-
	certification IECEx	ECEX IBE 12.0020
	type of protection	electronics compartment: flameproof enclosure connection compartment: increased safety
		electronics compartment: flameproof enclosure connection compartment: increased safety

FLUXUS	G800SR-A1	G801SR-A1
<b>measuring functions</b>		
physical quantities	operating volumetric flow rate, standard volumetric flow rate, mass flow rate, flow velocity	
totalizer	volume, mass	
calculation functions	average, difference, sum (2 measuring channels necessary)	
diagnostic functions	sound speed, signal amplitude, SNR, SCNR, standard deviation of amplitudes and transit times	
<b>communication interfaces</b>		
diagnostic interfaces	- RS232 <sup>1</sup> - USB (with adapter) <sup>1</sup>	
<b>serial data kit (optional)</b>		
software	- FluxDiagReader: download of measured values and parameters, graphical presentation - FluxDiag (optional): download of measurement data, graphical presentation, report generation - FluxSubstanceLoader: upload of fluid data sets	
cable	RS232 <sup>1</sup>	
adapter	RS232 - USB <sup>1</sup>	
<b>data logger</b>		
loggable values	all physical quantities, totalized values and diagnostic values	
capacity	> 100 000 measured values	
<b>outputs (optional)</b>		
The outputs are galvanically isolated from the transmitter.		
<b>current output</b>		
number	2 (1 (SIL 2), 1 (diagnosis))	
range	0/4...20 mA	
accuracy	0.1 % of reading $\pm 15 \mu\text{A}$	
active output	$R_{\text{ext}} < 500 \Omega$	
<b>binary output</b>		
number	1...2 (diagnosis)	
open collector	24 V/4 mA	
binary output as alarm output		
- functions	limit, change of flow direction or error	
open collector as pulse output	mainly for totalizing	
- pulse value	0.01...1000 units	
- pulse width	1...1000 ms	

<sup>1</sup> connection of the interface RS232 outside of explosive atmosphere (housing cover open)



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](http://www.flexim.com)  
 e-mail: [info@flexim.com](mailto:info@flexim.com)

Subject to change without notification. Errors excepted.  
 FLUXUS® is a registered trademark of FLEXIM GmbH.

TSFLUXUS\_SU\_G8SRV2-1EN\_Leu, 2017-05-09