





Flow transmitter FLUXUS G70xSR

Technical data

FLUXUS		G704SR-NN G704SR-F2	G705SR-NN G705SR-F2
design		standard field device SIL2	field device with stainless steel housing SIL2
			
measurement			
measurement principle		transit time difference correlation principle	
flow velocity		0.03 to 115 ft/s, depending on pipe diameter	
repeatability		0.15 % of reading ± 0.03 ft/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	
accuracy			
volumetric flow rate		± 1 to 3 % of reading ± 0.03 ft/s depending on application ± 0.5 % of reading ± 0.03 ft/s with field calibration	
flow transmitter			
power supply		100 to 230 V/50 to 60 Hz	
power consumption		< 15 W	
number of flow measuring channels		1, optional: 2	
damping		0 to 100 s, adjustable	
measuring cycle (1 channel)		100 to 1000 Hz	
response time		1 s (1 channel), option: 70 ms	
housing material		aluminum, powder coated	stainless steel 316L
degree of protection		NEMA 4	NEMA 4X
weight		6.8 lb	10.8 lb
fixation		wall mounting, optional: 2" pipe mounting	
ambient temperature		-4 to +140 °F	
display		2 x 16 characters, dot matrix, backlight	
menu language		English, German, French, Dutch, Spanish	
explosion protection (optional)			
F M	transmitter marking	G704SR-F2 G70[1 or 2]Z2**9:  NI/Cl. I,II,III/Div. 2/ GP. A,B,C,D,E,F,G/ T4A Ta = 55 °C	G705SR-F2 G703Z2**9:  NI/Cl. I,II,III/Div. 2/ GP. A,B,C,D,E,F,G/ T4A Ta = 55 °C

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measuring functions		
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	
communication interfaces		
diagnostic interfaces	- RS232 - USB (with adapter)	
serial data kit (optional)		
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	
adapter	RS232 - USB	
data logger		
loggable values	all physical quantities, totalized values and diagnostic values	
capacity	> 100 000 measured values	
outputs		
The outputs are galvanically isolated from the transmitter.		
current output		
number	2 (1 (SIL 2), 1 (diagnosis)), optional: 3 to 4 (1 (SIL 2), 2 to 3 (diagnosis))	
- range	0/4 to 20 mA	
- accuracy	0.1 % of reading $\pm 15 \mu\text{A}$	
- active output	$R_{\text{ext}} < 500 \Omega$	
binary output (optional)		
number	1 to 3 (diagnosis)	
optorelay	26 V/100 mA	
binary output as alarm output		
- functions	limit, change of flow direction or error	
binary output as pulse output	mainly for totalizing	
- pulse value	0.01 to 1000 units	
- pulse width	1 to 1000 ms	



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