




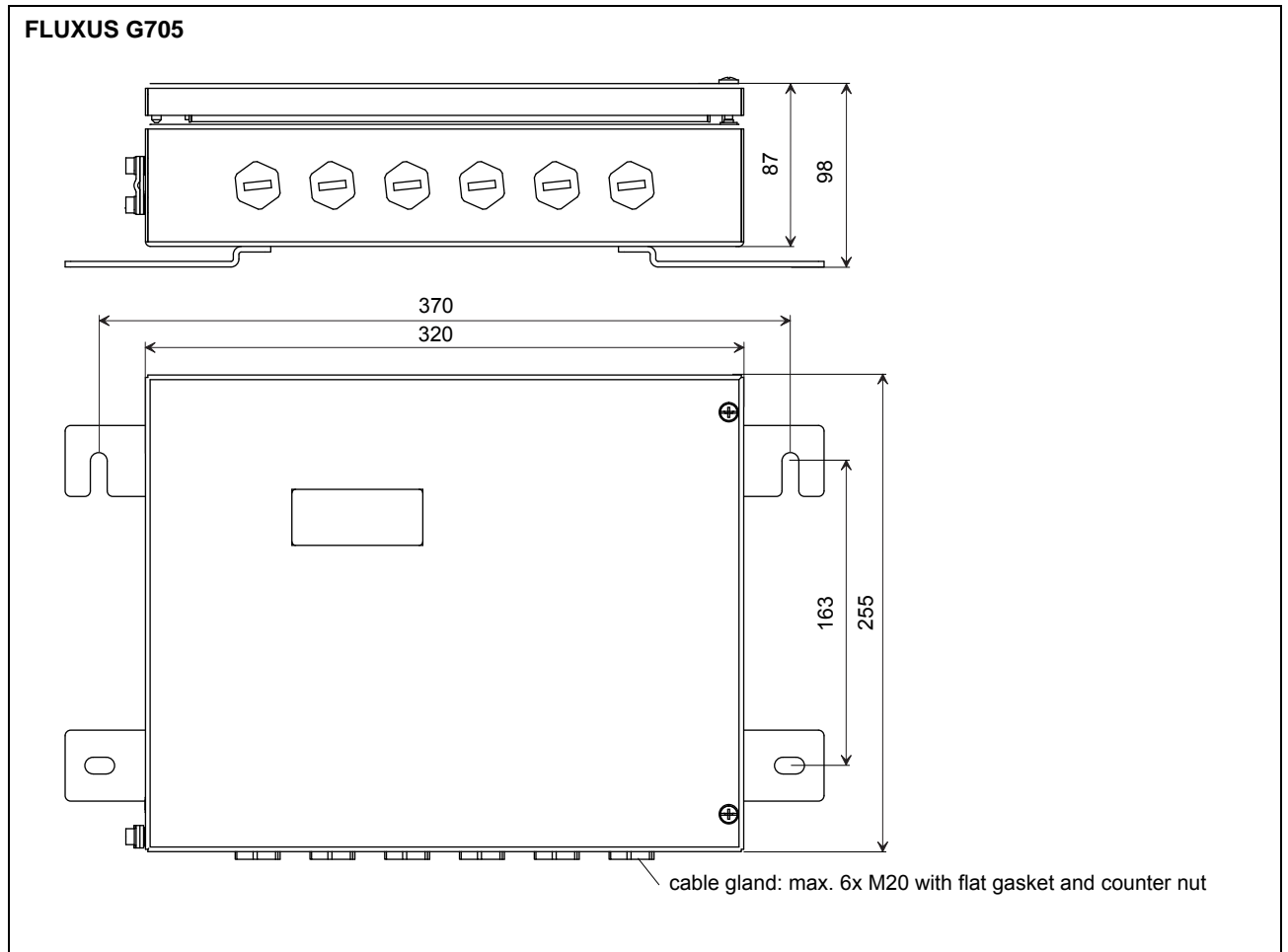
Flow Transmitter FLUXUS G705**-F2

Technical Data

FLUXUS	G705**-F2
design	field device with stainless steel housing
	
measurement	
measurement principle	transit time difference correlation principle
flow velocity	0.01...35 m/s, depending on pipe diameter
repeatability	0.15 % of reading ± 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
accuracy	
volumetric flow rate	$\pm 1...3$ % of reading ± 0.01 m/s depending on application ± 0.5 % of reading ± 0.01 m/s with field calibration
flow transmitter	
power supply	100...230 V/50...60 Hz or 20...32 V DC
power consumption	< 15 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	stainless steel 316L (1.4404)
degree of protection according to IEC/EN 60529	IP66
dimensions	see dimensional drawing
weight	4.9 kg
fixation	wall mounting, optional: 2" pipe mounting
ambient temperature	-20...+55/60 °C
display	2 x 16 characters, dot matrix, backlight
menu language	English, German, French, Dutch, Spanish
explosion protection	
F M	transmitter marking
	<p>G705**-F2 G703Z2**[1 or 2]:</p> <p> NI/Cl. I,II,III/Div. 2/ GP. A,B,C,D,E,F,G/ T5 Ta = 60 °C</p> <p>G703Z2**9:</p> <p> NI/Cl. I,II,III/Div. 2/ GP. A,B,C,D,E,F,G/ T4A Ta = 55 °C</p>
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

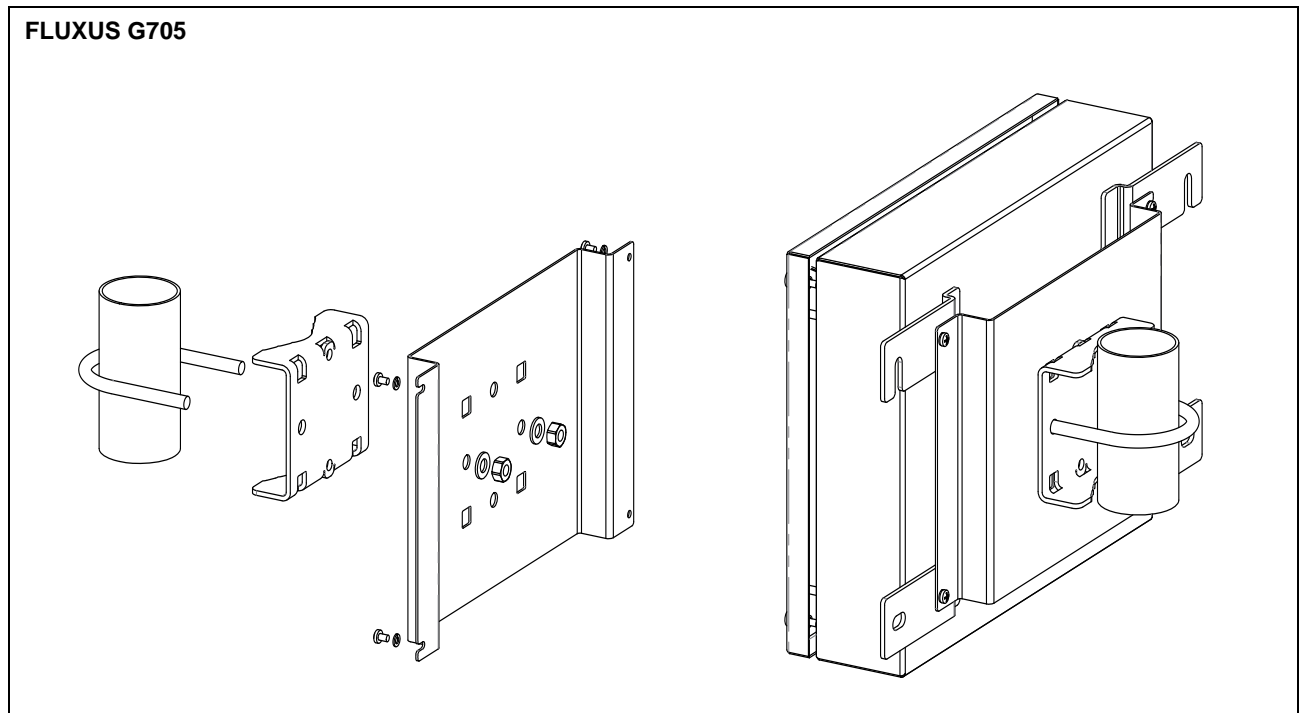
FLUXUS	G705**-F2
data logger	
loggable values	all physical quantities, totalized values and diagnostic values
capacity	> 100 000 measured values
communication	
interface	- process integration (optional): RS485 (emitter) or Modbus RTU or HART or FF - diagnosis: RS232
serial data kit (optional)	
software (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 - FluxSubstanceLoader: upload of fluid data sets
cable	RS232
adapter	RS232 - USB
outputs (optional)	
	The outputs are galvanically isolated from the transmitter.
number	on request
current output	
current output - range - accuracy - active output - passive output	0/4...20 mA 0.1 % of reading ±15 µA $R_{ext} < 500 \Omega$ $U_{ext} = 4...24 \text{ V}$, depending on R_{ext} , $R_{ext} < 1 \text{ k}\Omega$
current output I1 in HART mode - range - passive output	4...20 mA $U_{ext} = 10...24 \text{ V}$
voltage output	
range	0...1 V or 0...10 V
accuracy	0...1 V: 0.1 % of reading ±1 mV 0...10 V: 0.1 % of reading ±10 mV
internal resistance	$R_{int} = 500 \Omega$
frequency output	
range	0...5 kHz
open collector	24 V/4 mA, $R_{int} = 66.5 \Omega$
binary output	
Reed relay	48 V/100 mA, P1...P4: $R_{int} = 22 \Omega$
open collector	24 V/4 mA, P1...P4: $R_{int} = 22 \Omega$
optorelay	26 V/100 mA
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 optorelay: 1...1000 ms Reed relay, open collector: 80...1000 ms
inputs (optional)	
	The inputs are galvanically isolated from the transmitter.
number	max. 4, on request
temperature input	
type	Pt100/Pt1000
connection	4-wire
range	-150...+560 °C
resolution	0.01 K
accuracy	±0.01 % of reading ±0.03 K
current input	
accuracy	0.1 % of reading ±10 µA
active input	$U_{int} = 24 \text{ V}$, $R_{int} = 50 \Omega$, $P_{int} < 0.5 \text{ W}$, not short-circuit proof
- range	0...20 mA
passive input	$R_{int} = 50 \Omega$, $P_{int} < 0.3 \text{ W}$
- range	-20...+20 mA
voltage input	
range	0...1 V
accuracy	0.1 % of reading ±1 mV
internal resistance	$R_{int} = 1 \text{ M}\Omega$
binary input	
switching signal	5...26 V, 1 mA
functions	- resetting the measured values - resetting the totalizers - stopping the totalizers - activation of the measuring mode for highly dynamic flows

Dimensions



in mm

2 " Pipe Mounting Kit (optional)





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