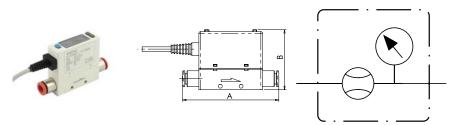


Flowmeter

»FLUX 0« series

MAX

Art. No. 148229 Type No. 9000978A2



Exemplary illustration

Thermal flowmeters of the »FLUX 0« series are miniaturized devices used for monitoring changes in flow and consumption, as well as for measuring leaks and energy efficiency. They come complete with push-in fittings. For the best results, the input pipe must have a straight section of at least 80 mm in length or more, otherwise the measurement will be inaccurate. They have two digital outputs and one analogue output, each of which can be freely set to measure the instantaneous flow rate, the accumulated flow rate or the pressure, therefore they can perform the function of flowmeter, flow switch, pressure gauge or pressure switch.

Technical data

Series	FLUX 0	
Size	0	
Max. input pressure	10 bar	
Operating pressure	-0.9 - 8 bar	
Temperature range	0 to 50 °C	
Connection	plug connector Ø8 mm	
Measuring range	0 NI/min to 200 NI/min	
Analogue output	4 - 20 mA	
Digital output	2 PNP	
Display	with	
Pressure sensor	with	
IO-Link	without	
Function	flowmeter/switch, pressure gauge, pressure switch	
Measured values output	via cable and display	
WiFi	without	
Compatible with app	no	
Medium	filtered, unlubricated compressed air and neutral gases	
Housing	technopolymer	
Supply voltage range	12 to 24 +/-10 % V DC	
Operating voltage	10.8 - 26.4 V DC	



Technical data

Hysteresis	adjustable
Flow direction	unidirectional
Measuring system	thermal
Protection IP	IP40
Scope of delivery	connector with 2 m cable
Ā	83.0 mm
В	52.0 mm

Keep at least 80 mm straight section before appliance.

A 5 μ m filter and a 0.01 μ m oil purifier are recommended.

Commercial data

Customs tariff number	90261021	
Country of origin	TW	
eCl@ss 5.1.4	27200490	
eCl@ss 9.0	27200490	
UNSPSC_Code_v190501	20121904	
UNSPSC_CodeDesc_v190501	Flow measurement equipment	



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FLOWMETER SERIES FLUX 0

The flowmeters FLUX 0 series are miniaturized devices used to measure air flow rate. They come complete with push-in pipe fittings. Numerous functions can be viewed and set on a three-colour display. They have 2 digital and one analogue outputs, each of which can be freely set to measure the instantaneous flow rate, the accumulated flow rate or the pressure, therefore they can perform the function of flowmeter, flow avitable pressure area on perform the function of flowmeter, flow switch, pressure gauge or pressure switch.

They feature reduced dimensions, with a width of only 17 mm. The FLUX 0 flowmeters comes in two models: one for flow rates up to 50 Nl/min, the other up to 200 Nl/min, and are can be powered at 12 and 24 VDC.



TECHNICAL DATA		FLUX 0 50 L	FLUX 0 200 L	
Measured flow range	NI/min	0 - 50	0 - 200	
Direction of flow	,	Unidirectional		
Working pressure range	bar	-0.9 to 8		
frendrig prosorie range	MPa	-0.09 to 0.8		
	psi		to 116	
Maximum admissible pressure	bar		10	
Pipe diameter for push-in fitting	mm		8	
Connecting cable	VDC	o 12 to 24 ± 10%, ripple max 10%		
Current consumption	mA		< 50	
Power cable			sistant, 26 AGW (6 x 0.15 mm²)	
Weight			luding cable)	
weigin	9	100 (inc		
DISPLAY				
Instant flow rate				
Display range	NI/min	0 - 50	0 - 200	
Minimum setting scale	NI/min	0.1	0 - 200	
Minimum sening scale	ft ³ /min	1		
Cumulative flow rate	n-7 min	I	I I	
		9999999 9	99999999	
Display range	NI			
Minimum setting scale	NI ft ³	0.1	1	
P	112	I	I	
Pressure		100	1000	
Display range	kPa	- 100) to 1000	
Minimum setting scale	kPa	1		
	bar	0.01		
	psi	0.1		
PRECISION				
Flow rate			100 % 50	
Guaranteed measuring range			100 % FS	
Display accuracy		± 3 % FS ± 1 digit ▲		
Analogue output accuracy		± 5 % FS 🔺		
Repeatability		±1%FS ±1 digit■		
Linearity			% FS 🔳	
Temperature characteristic		± 2 % FS for a temperature range of 15-35°C; ± 5 % FS for a temperature range of 0-15°C or 35-50°C ■		
Pressure characteristic		± 5 % FS	S±l digit *	
Pressure				
Guaranteed measuring range		0 to 100 % FS		
Display accuracy		± 2 % FS ± 1 digit ●		
Analogue output accuracy		± 2.5 % FS •		
Repeatability		± 0.2 % FS ± 1 digit ●		
Linearity		± 1 % FS ●		
Temperature characteristic		± 2 % FS ●		

▲ Data valid under these conditions: input pressure 3 bar, output pressure 1 bar, temperature 25°C
 ■ Data valid under these conditions: output pressure 1 bar, temperature 25°C
 ★ Data valid under these conditions: -90 to 800 kPa, output pressure 1 bar, temperature 25°C
 ● Data valid under these conditions: flow rate 0 NI/min, temperature 25°C

FLOWMETER SERIES FLUX 0 WARTUNGSEINHEITEN

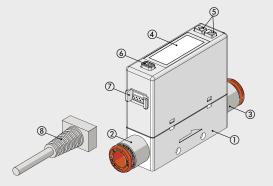


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TECHNICAL DATA		FLUX 0 50 L	FLUX 0 200 L	
DIGITAL OUTPUTS		501	2001	
N ° outputs		2 PNP		
Max current	mA		25	
Max voltage	VDC	2	24	
Residual voltage	V	≤1.5 V		
Response time, with flow rate setting	ms	50, 80, 120, 200, 400, 800, 1500 (default 800)		
Response time, with pressure setting	ms	2.5, 25, 100, 250, 500, 1000, 1500 (default 2.5)		
Response mode, with flow rate setting		Hysteresis mode, window comparison mode, cumulative mode, cumulative pulse mode ◆ Normally open or normally dosed		
Response mode, with pressure mode setting		One-point setting mode, hysteresis mode, window comparison mode. Normally open or normally closed •		
Hysteresis		Adjustable		
Short-circuit protection at output			es	
Cumulative pulse output	Nl/impulse	0.5	2	
	ft ³ /impulse	2	7	
ANALOGUE OUTPUT				
Version with voltage	v	1 to 5 1 k0	2 impedance	
Version with current	mA	4 to 20, with $\leq 300 \Omega$ impedance		
Response time, with flow rate setting	ms	≤ 100		
Response time, with pressure setting	ms		50	
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AMBIENT CONDITIONS				
Fluid		Filtered, dried and unlubricated air, inert non-corrosive and non-explosive gas.		
		A 5 µm filter and a 0.01 µm oil purifier are recommended		
Degree of protection		IP 40		
Temperature range	°C	0 to 50		
Storage temperature	°C	0 to 60 , but without condensate or ice		
Ambient humidity		35 to 85% relative humidity; no condensate		
Insulation voltage		1000 VAC for one minute between casing and cable		
Resistance of Insulation		Min. 50 MΩ (at 500VDC between casing and cable)		
Vibration admitted		1.5 mm amplitude or 10 g with scanning every minute from 10 to 55 Hz at 10 Hz, for 2 hours in each direction x, y and z		
Impact		100 m/s² (10 g), 3 times in each direction x, y and z		
Electromagnetic compatibility (EMC)		IEC 61000-6-2, IEC 61000-6-4		
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• Refer to the user manual for further deta	ils			ERIES
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COMPONENTS				FLOWMETER SERIES FLUX 0 WARTUNGSEINHEITEN
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COMPONENTS



- BODY: technopolymer
 INPUT AUTOMATIC FITTING: nickel-plated brass and technopolymer
 OUTPUT AUTOMATIC FITTING: nickel-plated brass and
- (4) DISPLAY LCD

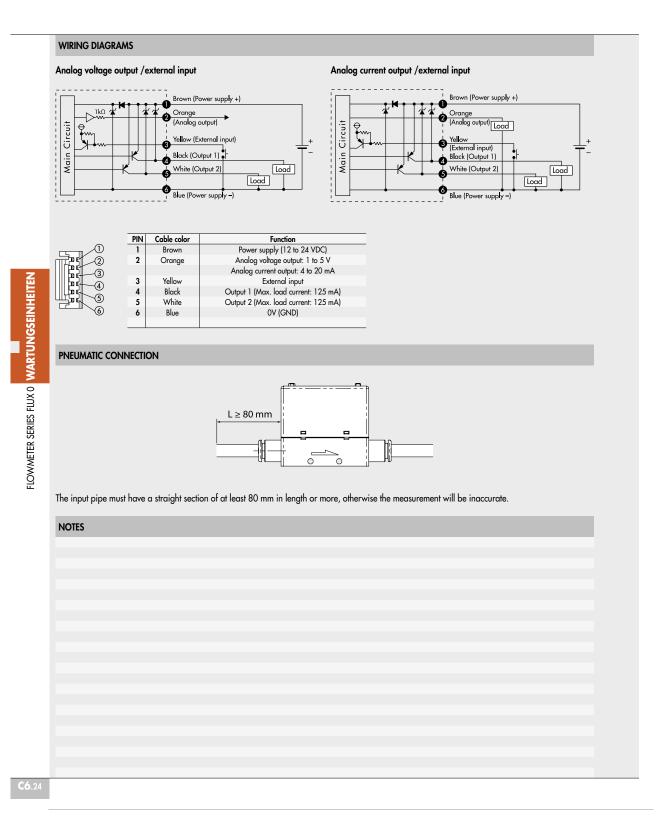
- (5) BUTTON: silicone.
- Used to select the operating mode, ON/FF switching and value setting 6 BUTTON: silicone.
- Used to select the operating mode and confirm the set values CONNECTOR 1
- (8) CONNECTOR WITH CABLE: length 2 meters

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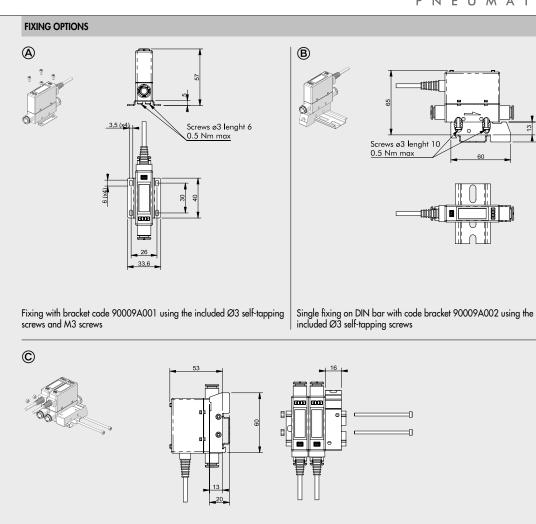
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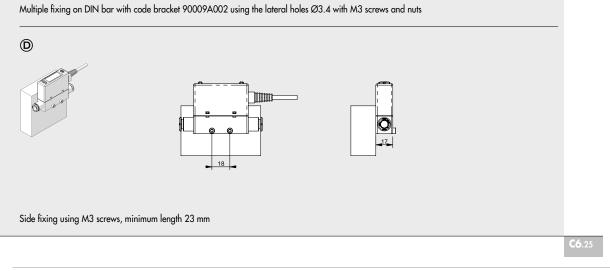
FLOWMETER SERIES FLUX 0 WARTUNGSEINHEITEN

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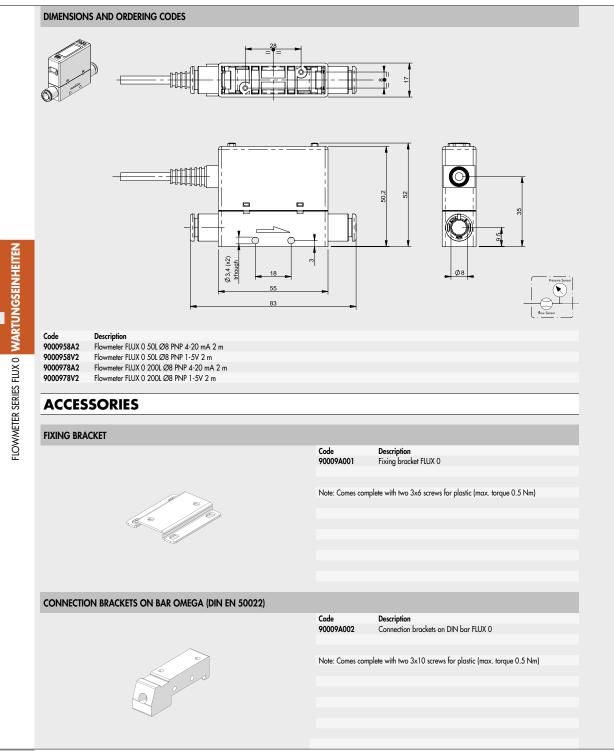












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Accessories

	Art. No.	Type No.
Fixing bracket for series »FLUX 0«	148186	90009A001
Adapter for DIN rail for series »FLUX 0«	148187	90009A002