FLOWMETER SERIES FLUX O

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 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.



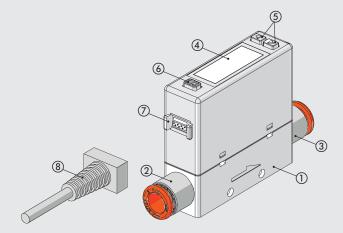
TECHNICAL DATA		FLUX 0 50 L	FLUX 0 200 L
Neasured flow range	NI/min	0 - 50	0 - 200
Direction of flow		Unid	irectional
Working pressure range	bar	-0.	.9 to 8
MPa		-0.0	9 to 0.8
	psi	-13	to 116
Maximum admissible pressure	bar		10
Pipe diameter for push-in fitting	mm		8
Connecting cable	VDC	12 to 24 ± 10%, ripple max 10%	
Current consumption	mA	≤ 50	
Power cable		Cable Ø 4 length 2 m, oil resistant, 26 AGW (6 x 0.15 mm²)	
Weight	g	100 (including cable)	
, , olgin	9	100 (IIIci	bung cable,
DISPLAY			
Instant flow rate			
Display range	NI/min	0 - 50	0 - 200
Minimum setting scale	NI/min	0.1	1
Willimoni sening scale	ft ³ /min	0.1	1
Cumulative flow rate	n°/ min	I	I
		999999.9	9999999
Display range	N.II		
Minimum setting scale	NI ft3	0.1	1
_	tt,	I	I
Pressure	10		
Display range	kPa	-100 to 1000	
Minimum setting scale	kPa		1
	bar		0.01
	psi		0.1
PRECISION			
Flow rate			
Guaranteed measuring range		2 to 100 % FS	
Display accuracy		± 3 % FS ± 1 digit ▲	
Analogue output accuracy		± 5 % FS ▲	
Repeatability		± 1 % FS ± 1 digit ■	
Linearity		± 3 % 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 ± 1 digit *	
Pressure			
Guaranteed measuring range		0 to 1	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			% FS ●
iomporatore characteristic		± Ζ	70 T U =

- lacktriangle 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
- $\bullet~$ Data valid under these conditions: flow rate 0 NI/min, temperature 25°C



TECHNICAL DATA		FLUX 0 50 L	FLUX 0 200 L
DIGITAL OUTPUTS			200 -
N ° outputs		21	PNP
Max current	mA	1	25
Max voltage	VDC	2	24
Residual voltage	V	≤ 1.5 V	
Response time, with flow rate setting	ms		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			e, cumulative mode, cumulative pulse mode ◆
			or normally closed
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	NI/impulse	0.5	2
	ft³/impulse	2	7
ANALOGUE OUTPUT			
Version with voltage	V	1 to 5, 1 kG) impedance
Version with current	mA	4 to 20, with \leq 300 Ω impedance	
Response time, with flow rate setting	ms	≤ 100	
Response time, with pressure setting	ms	≤	50
AMBIENT CONDITIONS			
Fluid		Filtered, dried and unlubricated air, ine	ert non-corrosive and non-explosive gas.
			oil purifier are recommended
Degree of protection			40
Temperature range	°C	O 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/s^2 (10 g), 3 times in each direction x, y and z	
Electromagnetic compatibility (EMC)		IEC 61000-6-2	, IEC 61000-6-4
Refer to the user manual for further detail	ls		

COMPONENTS



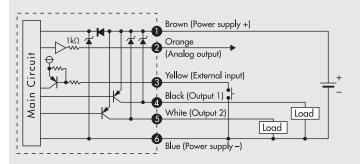
- BODY: technopolymer
 INPUT AUTOMATIC FITTING: nickel-plated brass and technopolymer
 OUTPUT AUTOMATIC FITTING: nickel-plated brass and technopolymer

 4 DISPLAY LCD

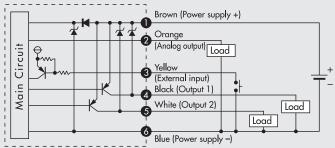
- (5) BUTTON: silicone.
 - Used to select the operating mode, ON/FF switching and value setting
- 6 BUTTON: silicone.
 - Used to select the operating mode and confirm the set values
- **⑦** CONNECTOR
- ® CONNECTOR WITH CABLE: length 2 meters

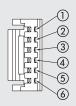
WIRING DIAGRAMS

Analog voltage output /external input



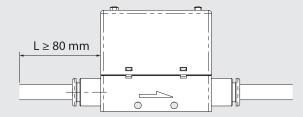
Analog current output /external input





PIN	Cable color	Function
1	Brown	Power supply (12 to 24 VDC)
2	Orange	Analog voltage output: 1 to 5 V
		Analog current output: 4 to 20 mA
3	Yellow	External input
4	Black	Output 1 (Max. load current: 125 mA)
5	White	Output 2 (Max. load current: 125 mA)
6	Blue	0V (GND)
		·

PNEUMATIC CONNECTION

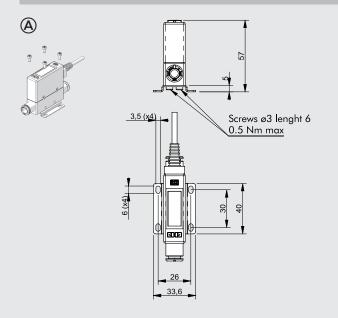


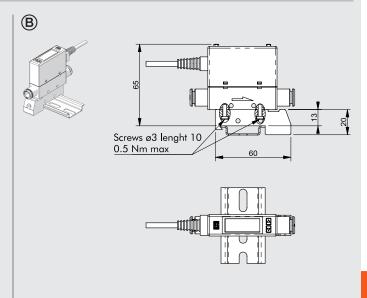
The input pipe must have a straight section of at least 80 mm in length or more, otherwise the measurement will be inaccurate.

NOTES



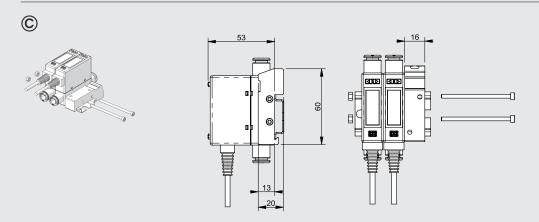
FIXING OPTIONS





Fixing with bracket code 90009A001 using the included $\varnothing 3$ self-tapping screws and M3 screws

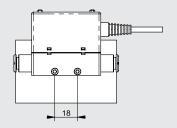
Single fixing on DIN bar with code bracket 90009A002 using the included $\varnothing 3$ self-tapping screws

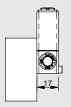


Multiple fixing on DIN bar with code bracket 90009A002 using the lateral holes Ø3.4 with M3 screws and nuts





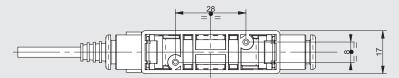


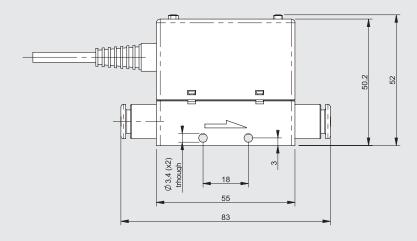


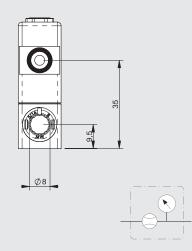
Side fixing using M3 screws, minimum length 23 mm

DIMENSIONS AND ORDERING CODES









Code	Description
9000958A2	Flowmeter FLUX 0 50L Ø8 PNP 4-20 mA 2 m
9000958V2	Flowmeter FLUX 0 50L Ø8 PNP 1-5V 2 m
9000978A2	Flowmeter FLUX 0 200L Ø8 PNP 4-20 mA 2 m
9000978V2	Flowmeter FILIX 0 2001 Ø8 PNP 1-5V 2 m

ACCESSORIES

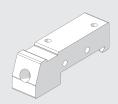
FIXING BRACKET



Code	Description
90009A001	Fixing bracket FLUX 0

Note: Comes complete with two 3x6 screws for plastic (max. torque $0.5\ Nm$)

CONNECTION BRACKETS ON BAR OMEGA (DIN EN 50022)



Code	Description
90009A002	Connection brackets on DIN bar FLUX 0

Note: Comes complete with two $3x10\ screws$ for plastic (max. torque $0.5\ Nm)$