

# The S-series Eletta Flow Monitor

with direct reading and dual  
adjustable flow contacts



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## Eletta flow

when you want to know



### GL series

The Pipe Section is constructed of copper alloy and fitted with BSP/NPT threads from 15 mm to 40 mm (1/2"–1 1/2").

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### Benefits of the S-series

- Rugged and sturdy design
- Uses proven differential pressure technique
- Economical alternative to expensive flow meters
- Liquids and gases can be monitored
- Large 130 mm dial with linear scale for direct reading
- Two SPDT micro switches for adjustable flow alarm
- Insensitive to magnetic fields
- Intrinsically safe Ex ia through standard barriers
- Available also as direct reading flow monitor S02/S05

### Important applications and product features

- Monitoring flows in cooling and lubricating circuits
- Antifreeze protection of heat pump systems
- Dry out protection
- Starting and stopping pump motors
- Shows flow without external power
- Low cost solution for difficult flow applications
- Interchangeable control units to fit all pipe sections
- Not affected by static pressure



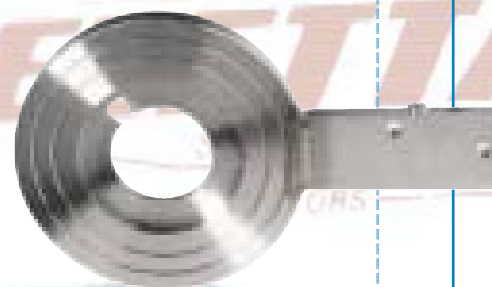
### FA series

The Pipe Section has a flanged (wafer) process pipe connection and the material is bronze from 15 mm up to size 40 mm (1/2"–1 1/2") and epoxy polyester coated cast iron in sizes 50 mm to 400 mm (2"–16").



### GSS series

The Pipe Section is made from Stainless Steel and comes with BSP/NPT threads in size 15, 20 and 25 mm (1/2", 3/4" and 1").



### FSS series

The Pipe Section comes in stainless steel and has the same "fit between flanges" (wafer) execution as the -FA series and process connections from 15 mm to 500 mm (1/2"–20").

## The S-series Flow Monitor

**The Eletta Flow Monitor's function is based on the proven and dependable differential pressure principle. This is perhaps the oldest and most widely used principle for flow metering, mainly because of its simplicity and its relatively low cost.**

The S-series Flow Monitor is used to monitor and control the flow of liquids and gases in pipes from 15 mm to 500 mm. The direct reading S-series has a large and easy readable 130 mm dial with a linear scale as standard and it can be fitted with a customized scale as an option. It is ideally suited for harsh and dusty industrial environments where its sturdy and robust design are appreciated. In addition, it is possible through the two independently adjustable SPDT micro switches, to set a low and/or high flow alarm to protect expensive equipment in various piping systems. The S-series can also be used in intrinsically safe circuits if the micro switches are powered through an approved Ex-barrier. The Monitor is insensitive to surrounding magnetic fields and it combines the long-standing proven mechanical function with outstanding reliability. Together with an exceptionally sturdy and robust design, this makes it extremely well suited for difficult environments. The S-series can also be ordered without the micro switches, designated S02 and S05, and is then used as a direct reading flow monitor only.

The S-series comes in two measuring ratios designated S2/S02 and S25/S05, which means that the S2/S02 has a measuring span of 1:2 and the S25/S05 has a span of 1:5.

Like all Eletta Flow Monitors the S-series can monitor both liquids and gases.

## Modular design

All the Eletta Flow Monitors including the S-series can be fitted to any of the various Eletta Flow Monitor Pipe Sections to suit your application.

The Instrument consists of two parts mainly, i.e. the Pipe Section and the Control Unit. The Pipe Section is the part that is to be mounted in the process pipe and the Control Unit is mounted directly (standard) or remote onto the Pipe Section.

As the Control Unit is pre-calibrated before leaving our production facilities, you can change pipe sections in the field to fit other dimensions and materials than originally ordered without recalibration.

The Control Unit contains the two micro switches which, can be adjusted independently in the field within the measuring range for both high and low alarm.

The Pipe Sections come in Copper alloy, Stainless Steel, Cast Iron and sizes from DN 15/PN 16 (ANSI 1/2"/150 lbs) up to DN 500/PN 16 (ANSI 20"/150 lbs). The S-series Control Unit can also be used independently to upgrade an already installed Eletta Flow Monitor, such as A-, V- or R-models even after the installation.

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# Measuring Ranges

## Eletta Flow Monitors

V1, S02, S2, R2 and A2			
Dim. DN		lit/min	MCx(S2)
1/2" DN 15	GL, GSS FA, FSS	0,4 - 0,8	0,1
		0,6 - 1,2	0,15
		1 - 2	0,25
		1,6 - 3,2	0,4
		2 - 4	0,5
		2,4 - 4,8	0,6
		3,2 - 6,4	0,8
		4 - 8	1
		6 - 12	1,5
		8 - 16	2
		10 - 20	2,5
		12 - 24	3
		16 - 32	4
3/4" DN 20	GL, GSS FA, FSS	4 - 8	1
		6 - 12	1,5
		8 - 16	2
		10 - 20	2,5
		12 - 24	3
		16 - 32	4
1" DN 25	GL, GSS FA, FSS	8 - 16	2
		10 - 20	2,5
		12 - 24	3
		16 - 32	4
		24 - 48	6
		36 - 72	9
		40 - 80	10
		-----	
		FA, FSS	50 - 100
			12,5
1 1/4" DN 32	FA, FSS	20 - 40	5
		28 - 56	7
		40 - 80	10
		60 - 120	15
		80 - 160	20
1 1/2" DN 40	GL, FA, FSS	20 - 40	5
		28 - 56	7
		40 - 80	10
		60 - 120	15
		80 - 160	20
	FA, FSS	-----	
		100 - 200	25
2" DN 50	FA, FSS	40 - 80	10
		60 - 120	15
		80 - 160	20
		120 - 240	30
		160 - 320	40
2 1/2" DN 65	FA, FSS	60 - 120	15
		80 - 160	20
		120 - 240	30
		160 - 320	40
		240 - 480	60
3" DN 80	FA, FSS	280 - 560	70
		120 - 240	30
		160 - 320	40
		240 - 480	60
		320 - 640	80
4" DN 100	FA, FSS	400 - 800	100
		160 - 320	40
		280 - 560	70
		400 - 800	100
		600 - 1200	150
5" DN 125	FA, FSS	700 - 1400	175
		400 - 800	100
		600 - 1200	150
		800 - 1600	200
		1000 - 2000	250
6" DN 150	FA, FSS	1200 - 2400	300
		800 - 1600	200
		1200 - 2400	300
		1400 - 2800	350
		1500 - 3000	375
8" DN 200	FA, FSS	1600 - 3200	400
		1200 - 2400	300
		1600 - 3200	400
		2400 - 4800	600
		2500 - 5000	625
10" DN 250	FA, FSS	3200 - 6400	800
		1600 - 3200	400
		2000 - 4000	500
		4000 - 8000	1000

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V15, S05, S25, R5 and A5			
Dim. DN		lit/min	MCx(S25)
1/2" DN 15	GL, GSS FA, FSS	0,4 - 2	0,4
		1 - 5	1
		2 - 10	2
		4 - 20	4
		6 - 30	6
		8 - 40	8
		-----	
3/4" DN 20	GL, GSS FA, FSS	4 - 20	4
		6 - 30	6
		8 - 40	8
		15 - 75	15
1" DN 25	GL, GSS FA, FSS	6 - 30	6
		12 - 60	12
		16 - 80	16
		24 - 120	24
	FA, FSS	-----	
		30 - 150	30
1 1/4" DN 32	FA, FSS	8 - 40	8
		20 - 100	20
		40 - 200	40
		50 - 250	50
1 1/2" DN 40	GL, FA, FSS	8 - 40	8
		20 - 100	20
		40 - 200	40
		60 - 300	60
2" DN 50	FA, FSS	20 - 100	20
		40 - 200	40
		70 - 350	70
		100 - 500	100
2 1/2" DN 65	FA, FSS	20 - 100	20
		50 - 250	50
		100 - 500	100
		160 - 800	160
3" DN 80	FA, FSS	40 - 200	40
		80 - 400	80
		160 - 800	160
		240 - 1200	240
4" DN 100	FA, FSS	80 - 400	80
		160 - 800	160
		250 - 1250	250
		400 - 2000	400
5" DN 125	FA, FSS	100 - 500	100
		200 - 1000	200
		400 - 2000	400
		600 - 3000	600
6" DN 150	FA, FSS	200 - 1000	200
		400 - 2000	400
		600 - 3000	600
		900 - 4500	900
8" DN 200	FA, FSS	400 - 2000	400
		600 - 3000	600
		1000 - 5000	1000
		1500 - 7500	1500
10" DN 250	FA, FSS	600 - 3000	600
		1000 - 5000	1000
		1600 - 8000	1600
		2400 - 12000	2400

MC = Measuring Constant  
It is possible to order a lower  
measuring range than indicated

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