EMSF

Flow sensor unit

Product	**EMSF**
Construction material	**Steel**
Finishing	**Galvanized**

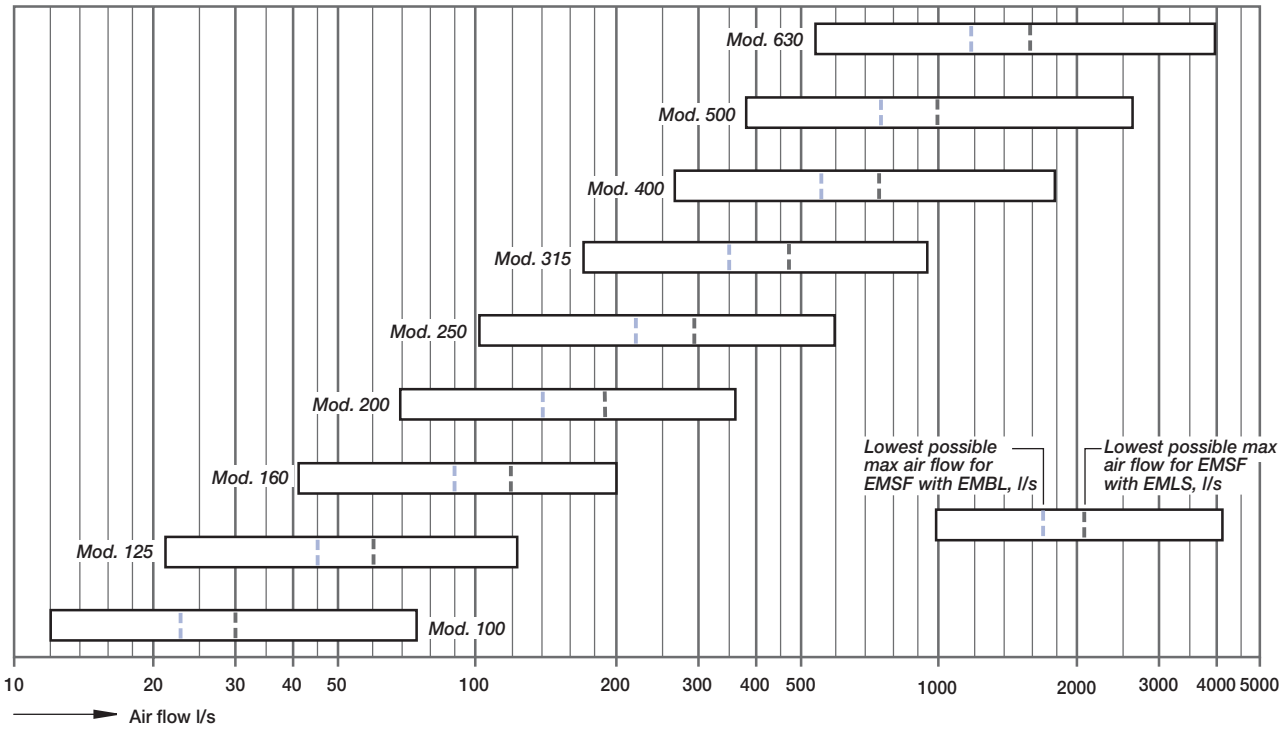
Flow sensor unit for the supply and exhaust air, intended for circular ducts with nominal diameters from 100 to 630 mm.

A measurement flange senses the air flow. The orifice plate has two separate outlets, one for the control components and the other for manual flow measurement.

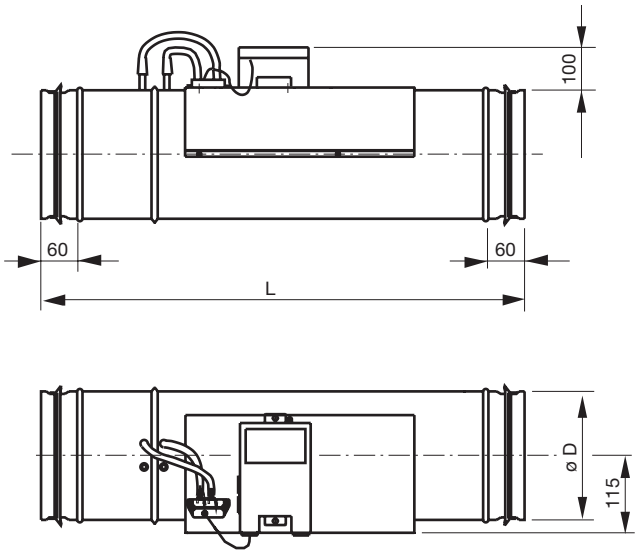
The flow sensor unit is intended for an electronic control system, but can also be supplied with a pneumatic system.

Quick selection

Summary graph of air flow areas



Size



Size	Dimensions (mm)		Weight
	ø D	L	kg
100	99	600	1,2
125	124	600	1,8
160	159	600	2,2
200	199	600	2,8
250	249	600	3,3
315	314	700	4,1
400	399	700	4,4
500	499	900	7,9
630	629	900	11,5

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flow sensor unit

How to order

E M S F a a a b

Flow sensor unit

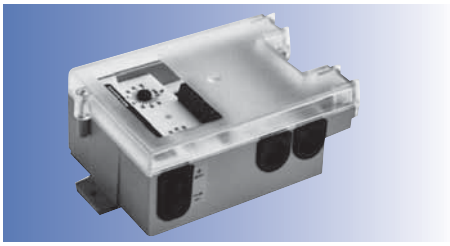
Size:
100, 125, 160, 200, 250, 315, 400, 500, 630

Material
corrosivity class C 3 (environmental M2), 1
galvanized sheet steeel
corrosivity class C 4 (environmental M3), 2
applies to parts in contact with the ventilation air

E M B L a a a 9 0 0 0 0

Electrical and control
equipment

Size:
100, 125, 160, 200, 250, 315, 400, 500, 630



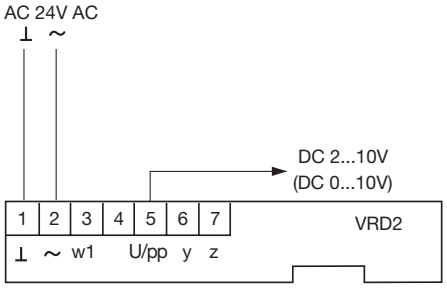
EMBL-aaa-9-00-00

Control equipment for:
flow sensor unit EMSF

VRD2 is used as a differential pressure for EMSF to measure the difference in pressure over the orifice plate.
The electronics in VRD2 produce an output signal of 2 - 10 V DC which is linear to the air flow.

The differential pressure sensor is calibrated on delivery for EMSF's nominal air flow.
The system is used for monitoring purposes or for the slave control of an OPTIVENT equipped with EMBL-aaa-1-cc-dd or EMBL-aaa-2-cc-dd.

NB.: Connect only via a protective transformer



Technical data

Supply voltage	24 V CA ± 20%, 50/60 Hz (SELV)
Power consumption	3,0 Va
Actual value signal	2 - 10 V CC
Enclosure class	IP 42
Permitted ambient temp. operation	0 - 50 °C
storage	-20 - 80 °C
CE	89/336/EEC e 92/31/EEC
Power consumption	1,3 W