

Features

- Suitable for Compressed Air Applications
- Integral Flow Indicator
- Compact & Cost Effective
- Line Size : 15NB to 50NB
- Zero Tare Facility
- Display Auto Shut Off Facility
- MOC Electronics Enclosure : SS304 / SS316
- Battery Operated
- Reliable and Cost Effective



Description

Electronet series AFG-20 is Digital Air Flow Gauge for fast, easy & trouble free operation. The flow gauge works on differential pressure flow measurement principle. These can be cost effective & ideal for monitoring the flow rate of compressed air. Display shut-off facility is provided so that display can be made 'ON' only if required through push button. Thus it saves the battery power and results in long lasting battery operation.

Technical Specifications

Line Size	Line Size : 15NB to 50NB
Accuracy	± 1% of F. S.
MOC of Plate	AISI 316, AISI 304, Hastalloy C, Other on request
MOC of Body	SS-304 / SS-316
MOC of Gasket	PTFE & Other on request
Operating Temperature Range	0-1200 C (Higher temp on request)
Operating Pressure Range	0-25 kg/cm ² (Higher pressure on request)
Burst Pressure	2 times max. Pressure range
Over Range Protection	1.5 times of Max. operating pressure
Repeatability	+/- 0.5% of F.S.
MOC Electronics Enclosure	SS-304, SS-316
Electronic Protection Class	Weather Proof IP-65
Sensor Type	Piezo Resistive
Process Connection	1) Threaded BSP (F)
	2) Flanged (STD ASA 150 B 16.5)
	3) Socket Weld
Inbuilt Display	8 Digit, Dot Matrix LCD
Process Temperature	-40 to 120 °C max
Display Lock	Display can be made ON by pressing 'ON' Key on front fascia
	Display ON duration programmable (1 min, 2 min, 5 min & conti. ON)
Power Supply	3.6 V, Battery Operated
Battery Back up Time	2000 Hrs
Response Time	< 200 mSec
Temperature Coefficient	± 0.01% per °C
Enclosure Material	SS / Die cast Aluminum IP-65 / Flameproof
Mounting	Direct Line mount
Operating Conditions	Temperature : -20 to 70 °C / Humidity : 5 to 95% non condensing at 25 °C

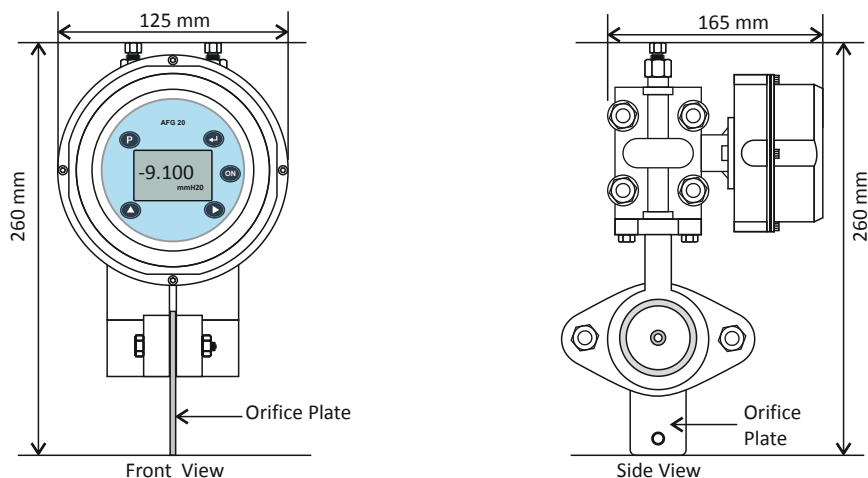
AFG 20

BATTERY OPERATED AIR/GAS FLOW GAUGE



Assembly Overview

(Typical arrangement for 50 NB Flow Gauge)



Air Velocity Table

ID of pipe	Air velocity inside pipe						
	5m/s	10m/s	20m/s	40m/s	60m/s	90m/s	120m/s
15 NB (1/2")	3.2 m ³ /h	6.4 m ³ /h	12.7 m ³ /h	25.4 m ³ /h	38.2 m ³ /h	57.3 m ³ /h	76.3 m ³ /h
25 NB (1")	8.8 m ³ /h	17.7 m ³ /h	35.3 m ³ /h	70.7 m ³ /h	106 m ³ /h	159 m ³ /h	212.1 m ³ /h
40 NB (1.5")	22.6 m ³ /h	45.2 m ³ /h	90.5 m ³ /h	181 m ³ /h	271.4 m ³ /h	407.2 m ³ /h	542.9 m ³ /h
50 NB (2")	35.3 m ³ /h	70.7 m ³ /h	141.4 m ³ /h	282.7 m ³ /h	424.1 m ³ /h	636.2 m ³ /h	848.2 m ³ /h

Ordering Information

Sample Order Code : AFG 20-FT15-N1-O1-P1-Q1

Parameter		Code	Description	Code	Description	Parameter		Code	Description
FT	Flow Tube	FT 15	15 NB	FT 32	32 NB	P	Communication	P1	GSM (Either or)
		FT 20	20 NB	FT 40	40 NB		Output 2	P2	GPRS (Either or)
		FT 25	25 NB	FT 50	50 NB		(Either or)	PX	NA
N	MOC Electronics Enclosure	N1	Die Cast Aluminum			Q	Process Connection	Q1	Threaded BSP (F)
		N2	SS-316					Q2	Flanged (STD ASA 150 B 16.5)
O	Communication Output 1	O1	RS-485 (Only in case of 24 VDC supply)					Q3	Socket Weld
		OX	NA					QY	Other

Note : • Due to our continuous product revisions, design specification & model numbers are subject to change without notice.

- To be used for industrial applications.
- Accuracy defined at Lab Conditions. • For other requirement please consult factory.
- This product is meant for laboratory/Process application only & not for custody transfer application.



Office & Manufacturing Unit

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