



INTRA-AUTOMATION GmbH - Postfach 10 03 27 - D-41487 Grevenbroich

SANOR, S.A.
Mr. Houllier
31 rue Kléber

59170 Croix
FRANKREICH

QUOTATION

offer no.: 09/26116

Date 18.12.2009
our reference EE-ej

Fax: regis.houllier@airlite
c.com

Your inquiry : 17.12.2009 / 09/08/COME

Dear Mr. Houllier,

We thank you for your inquiry and are pleased to submit the following quotation acc. to our general conditions for sales and distribution:

item	description	quant.	price each EUR		total amount EUR
001	ITABAR-FLOW-SENSOR type: IBF-25-ID93,8/8,1mm-M-SM-1-B60-S-0-0-KI- HL-T0-A03-A56 sensor material: Monel mounting; scale flange with retainer for pipe size 87 - 470 mm instrument connection: 2 off ball valves 1/2" NPT mat. 316SS	1	1.905,00	net	1.905,00

Please find data sheet.

Pricing: ex works, packing extra.

Payment: T/T before shipment

Delivery time: 6 weeks after receipt of order and clarification of technical and commercial matters.

Instruments made by Intra-Automation GmbH are not subject to any restrictions for Im- or Export by EU-, German or US-law.

Standard documentation 1-fold included in price for each type of instrument.

Validity of quote: 60 days.

Should you have any further questions do not hesitate to contact us.

Yours faithfully

INTRA-AUTOMATION GmbH

Ernst Evers

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Geschäftsführer
Ernst Evers
Handelsregister HRB 7395
Amtsgericht Mönchengladbach
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INTRA-AUTOMATION GmbH

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WINFLOW 2.75 (I) Diff. Pressure Calculation ITABAR - Flow - Sensor

Company: Sanor
Name(capital letters):
Street:
Zip Code/City:
Offer-/Com. No: 09/26116
P. Order Number:
Tag No.:
Serial No.:
Pipe Data: ID=93,80/8,100 mm - horizontal
Date: 17.12.2009
Person in charge: E.E.

Calculation: Volume rate of Flow Liquids
Fluid: Water

Base Temperature	273,15 Kelvin
Base Pressure	101,33 kPa

Pipe Internal Dimensions to 20°C 93,80 mm
Pipe Internal Dimensions 70,00 °C 93,80 mm
Flowing Temperature: 70,000 °C
Flowing Pressure: 5,000 bar A
Density: 0,978 kg/dm3
Viscosity: 0,4040 cPs
K-Factor: 0,5097 without unit

	QMax	QNorm	QMin	
Flow Rate	70,00	56,00	14,00	m3/H
Reynolds No.	638.213	510.570	127.643	without unit
Permanent press. loss	37,760	24,170	1,510	mbar
Velocity:	2,81	2,25	0,56	m/sec.
Differential Pressure	144,499	92,480	5,780	mbar

Itabar-Type: IBF-25-ID93,8/8,1mm-M-SM-1-B60-0-0-KI-HL-T0-A03-A56
Material Sensor Monel 400
Note:

Max. DeltaP	647,00 mbar	Max. Flow Rate	148,12 m3/H
Natural Freq.:	398,42 hz	Operat. Freq.:	7,78 hz

Your specialist for measuring level and flow