



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

SANOR, S.A.
Mr. Yves Froment
31 rue Kléber59170 Croix
FRANKREICH

QUOTATION

offer no.: 09/25661Rev4

Date 13.10.2009
our reference EE-co

e-mail: contact@sanor.fr

Your inquiry : 22.09.2009 / to our Mr. Houllier

Dear Mr. Yves Froment,

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: IBR-21-ID82,5/3,2mm-S-07-C- KI-HL-A03-A56	1	224,00	net 224,00
002	ITABAR-FLOW-SENSOR type: IBR-21-ID107,1/3,6mm-S-07-C- KI-HL-A03-A56	1	236,00	net 236,00
003	ITABAR-FLOW-SENSOR type: IBR-26-ID159,3/4,5mm-S-1-C- KI-HL-T0-A03-A56	1	364,00	net 364,00
004	ITABAR-FLOW-SENSOR type: IBR-26-ID207,3/5,9mm-S-1-C- KI-HL-T0-A03-A56	1	413,00	net 413,00
005	ITABAR-FLOW-SENSOR type: IBR-26-ID131,7/4mm-S-1-C- KI-HL-T0-A03-A56	1	377,00	net 377,00
006	FLOW INDICATOR type: 130-P-C-00-00 scale: square m ³ /h measuring range: 0 - 12 mbar up to 0 - 1 bar	5	480,00	net 2.400,00



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item	description	quant.	price each EUR		total amount EUR
007	MAG. LEVEL GAUGE type: ITA-6 c to c: 500 mm process connection: 1" ANSI 150 lbs RF materials: float chamber - 316SS flanges - 316SS float - 316SS flap cage - Polycarbonate	1	743,00	net	743,00
008	MAG. SWITCH type: 1690 (3 m cable)	3	53,00	net	159,00

Zero point and measuring range of d.p. indicator 130 are adjustable.

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

Please also visit our homepage www.intra-automation.de
Important. If you have any question or comment to this quote, please always note our reference number on your writings. Without that notice, we are not able to work on them.

INTRA-AUTOMATION GmbH

D-41515 Grevenbroich * Otto-Hahn-Str. 20 * Tel: +49 2181-68761 * Fax: +49 2181-64492

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

Company: SANOR
Name(capital letters):
Street:
Zip Code/City:
Offer-/Com. No: 09/25661
P. Order Number:
Tag No.:
Serial No.:
Pipe Data: ID=131,70/4,000 mm - horizontal
Date: 13.10.2009
Person in charge: E.E.

Calculation: Volume rate of Flow Liquids
Fluid: Water

Base Temperature	273,15	Kelvin
Base Pressure	101,30	kPa

Pipe Internal Dimensions to 20°C 131,70 mm
Pipe Internal Dimensions 15,00 °C 131,70 mm
Flowing Temperature: 15,000 °C
Flowing Pressure: 7,000 bar G
Density: 0,999 kg/dm3
Viscosity: 1,1380 cPs
K-Factor: 0,5590 without unit

	QMax	QNorm	QMin	
Flow Rate	400,00	320,00	80,00	m3/h
Reynolds No.	942.295	753.836	188.459	without unit
Permanent press. loss	206,570	132,200	8,260	mbar
Velocity:	8,16	6,53	1,63	m/sec.
Differential Pressure	1.031,496	660,157	41,260	mbar

Itabar-Type: IBR-26-ID131,7/4mm-S-11-C-KI-HL-T0-A03-A56
Material Sensor 316SS
Note:

Max. DeltaP	4.088,30 mbar	Max. Flow Rate	796,34 m3/h
Natural Freq.:	1.205,69 hz	Operat. Freq.:	34,00 hz