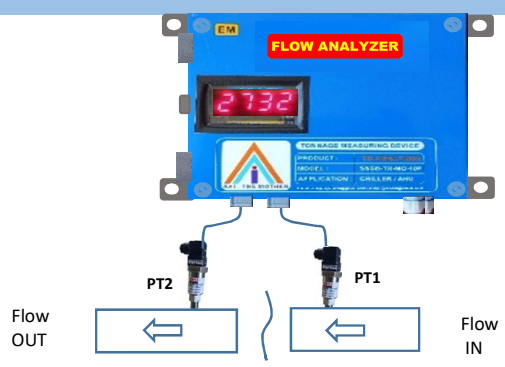
FLOW ANALYZER

FLOW MEASURING DEVICE

1. PRODUCT CATALOGUE

R-2512

Flow Analyzer for water flow measuring across Chiller and AHU application based on DP type flow measuring principle with inline water flow sensing by real-time line pressure monitoring.



- **Very advantageous for installation in the pipe line at G¼ A connection and no need of flanges or pipe cutting requirement.**
- **No Need of separate DP Switch for water flow status contact monitoring.**
- **Complete inline water sensing without requirement of 5D/3D distance criteria**
- **Superior in flow measurement at 0.5% of reading.**
- **Single Model to fit all pipe sizes and capacity of Chiller / AHU**

Product Name :	AAI-FL-MO-P
Product Type :	Flow Analyzer
Product Specific Application :	HVAC
Application Medium :	Water
Flow Range :	0…2498 m3/hr
Measuring Accuracy :	0.5% of reading
Pipe Size:	5m….5000mm
Operating Pressure :	0…...20 bar (as per selected Model)
Operating Temperature :	-20…55°C
Weight (overall) :	2.5 Kg
Measuring Data :	Water Flow (usgpm), Flow Status (P.F.C.), Inlet/Outlet Line Pressure
Dimension (overall) :	220mm (L) x 200mm (H) x 113 (D)
Power Supply :	100...240 V +/- 10 % AC
IP Protection :	PT-IP66, EM-IP20

* Chiller / AHU Design Selection sheet to be shared while placing order.

MODEL:

AAI	FL	MO	P
XXX	XX	XX	X

Flow :	FL = Flow, usgpm
Monitoring Output :	MO = Modbus Output, RS485 CO = Current Output, 0--20MA VO = Voltage Output, 0-10VDC
Line Pressure:	6P = upto 6 bar 10P = upto 10 bar 16P = upto 16 bar 20P = upto 20 bar

Sr. No.	Model No.	Mon. Output	Line Pressure
1)	AAI-FL-MO-6P	Modbus / RS485	6 bar
2)	AAI-FL-MO-10P	Modbus / RS486	10 bar
3)	AAI-FL-MO-16P	Modbus / RS487	16 bar
4)	AAI-FL-MO-20P	Modbus / RS488	20 bar
5)	AAI-FL-CO-6P	4-20mA	6 bar
6)	AAI-FL-CO-10P	4-20mA	10 bar
7)	AAI-FL-CO-16P	4-20mA	16 bar
8)	AAI-FL-CO-20P	4-20mA	20 bar
9)	AAI-FL-VO-6P	0-10V	6 bar
10)	AAI-FL-VO-10P	0-10V	10 bar
11)	AAI-FL-VO-16P	0-10V	16 bar
12)	AAI-FL-VO-20P	0-10V	20 bar

ACCESSORIES :

1) Ball Valve G¼ A for each PT1 and PT2 = Total quantity 2 Nos
2) Mounting plate / stand on pipe for EM unit Near PT2

* Accessories are not part of this product. End buyer has to arrange locally.

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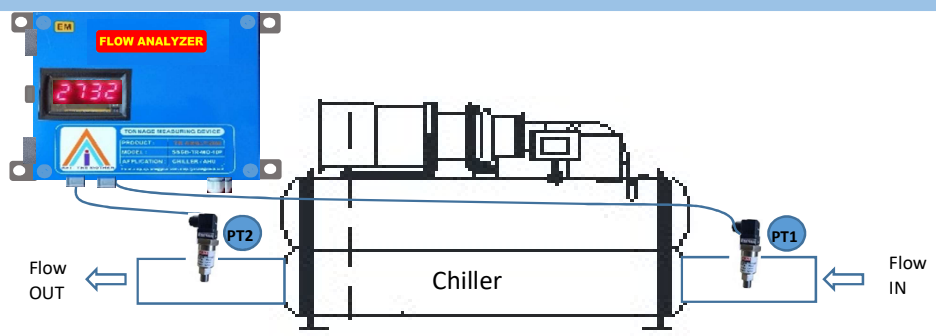
INSTALLATION:

3 Parts installation of Flow Analyzer :

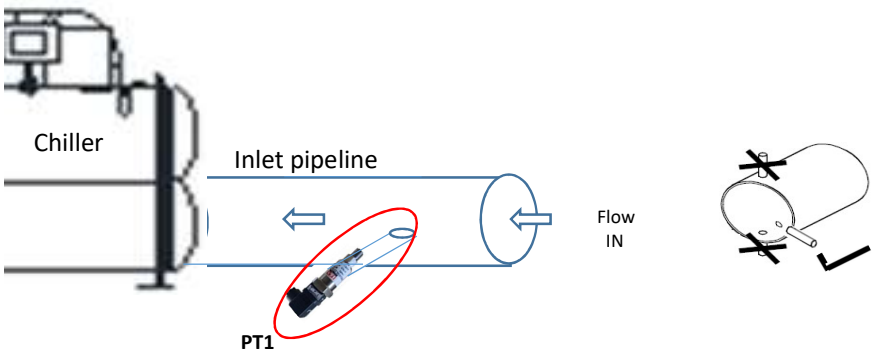


Part-1 : Pressure Sensing Device - PT1 Installation :

Connection = G¼ A to the INLET Pipe

Direction = 45° angle opposite to the water flow

Position = 35% bottom side of the pipe

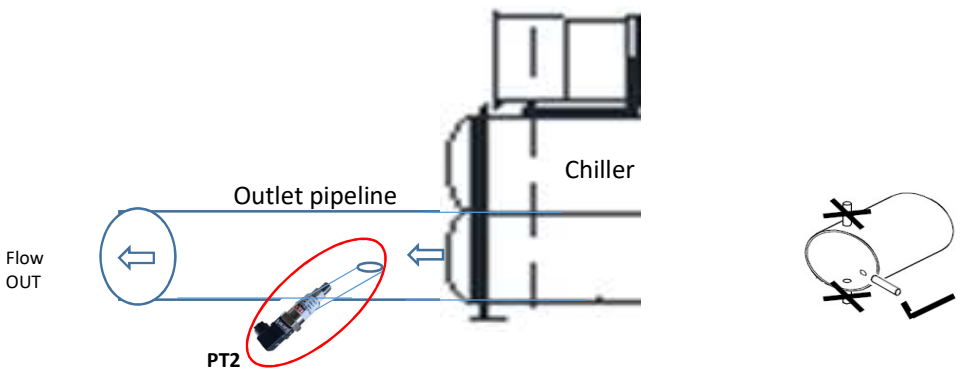


Part-2 : Pressure Sensing Device - PT2 Installation :

Connection = G¼ A to the OUTLET Pipe

Direction = 45° angle opposite to the water flow

Position = 35% bottom side of the pipe

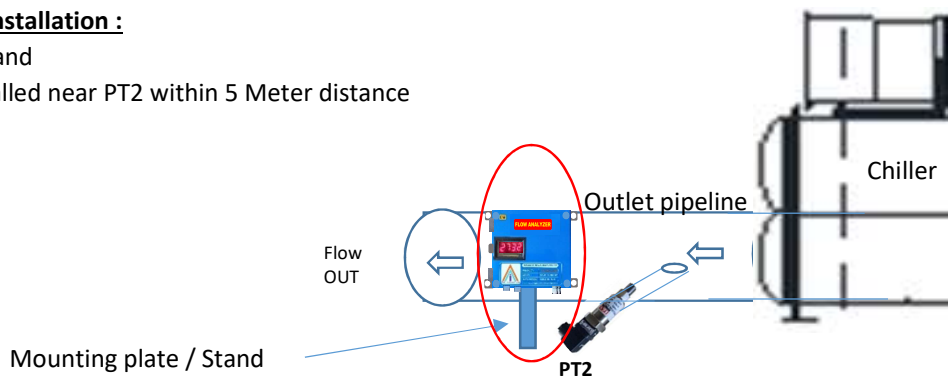


* Ball valve to be installed prior to each PT for isolation and maintenance purpose.

Part-3 : Electronic Module - EM Installation :

Connection = Mounting plate / Stand

Mounting plate / stand to be installed near PT2 within 5 Meter distance



WIRING :

MD+	~	+ Modbus/RS485	Modbus/ RS485 Output
MD-	~	- Modbus/RS485	
V+	~	+ 0-10VDC	For Voltage Flow Output
V-	~	- 0-10VDC	
mA+		+ 4-20mA	For Current Flow Output
mA-	~	- 4-20mA	

L	~	+ Phase	Power Supply 100~230VAC
N	~	- Neutral	

* Output configuration as per Model selection

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AAI - THE MOTHER

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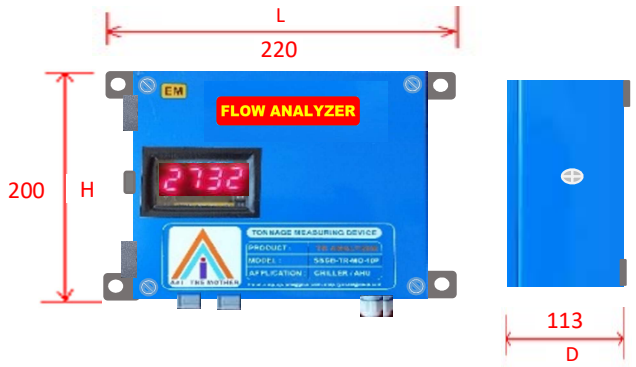
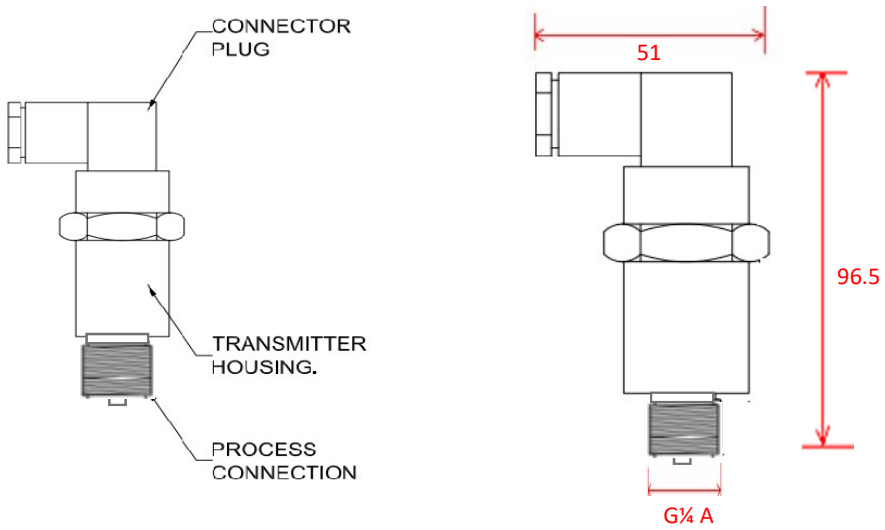
DIMENSIONS (in MM) :

EM Display Unit :



Pressure Sensing Device Unit (PT1 & PT2) :



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