

Vent Manager™ for Gas Process

- **Two in One system :**
Vent Pressure Managing System + Vent Gas Recovery System.
- **Simple access and easy operation.**
- **Dual pump redundant system.**
- **Dual pump for fault backup/capacity built up**
- **Compact size, small installation space.**
- **Explosion-proof protection for the all electrical parts.**
- **Low maintenance cost due to high level of documentation and proven design with proven components.**
- **Various safety functions and options.**

(for Option details see below.)

DESCRIPTIONS:

Sample streams discharged from process analyzers have historically been vented to atmosphere for disposal. This method is not only convenient, but also provides a very stable reference pressure necessary to insure accurate and repeatable analysis results.

As environmental legislation becomes more stringent, sample discharge to atmosphere is no longer allowable in many cases and analyzer engineers must choose an alternate method. Scrubber or Catalytic burners offer an alternative, however they do not completely eliminate emissions, have a limited flow capacity and require frequent maintenance. Discharge to a vent header that subsequently feeds a flare header and stack offers another choice. but the dynamic nature of the header is not conducive to pressure stability which compromises analysis accuracy. Complex vent systems installed plant-wide are also available, but they are highly engineered and expensive to install.

The Wellas Vent Manager™ is a totally mechanical but also electrical control integrated solution that actually creates a stable pressure within the vent header within 7 mmH2O . Test results prove the Vent Manager™ provides analysis accuracy within 0.06% over the vent header flow range of 0-16 L/min with a flare header back pressure as high as 20 psig.(over 3.5 barg, consult with factory)



KEY POINT SUMMARY :

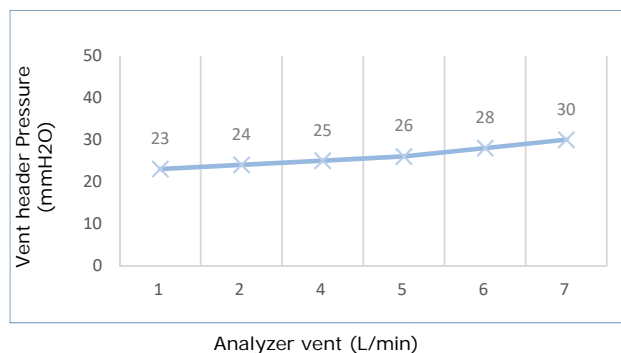
- This product can simply fix the issue caused by environmental Regulations.
- Also the user is able to operate Vent Manager as independently-automated control system without any additional control method.
- You don't need any utility software to operate this product
- Make better use of a space and user can install easily.

PERFORMANCE :

[Test condition]

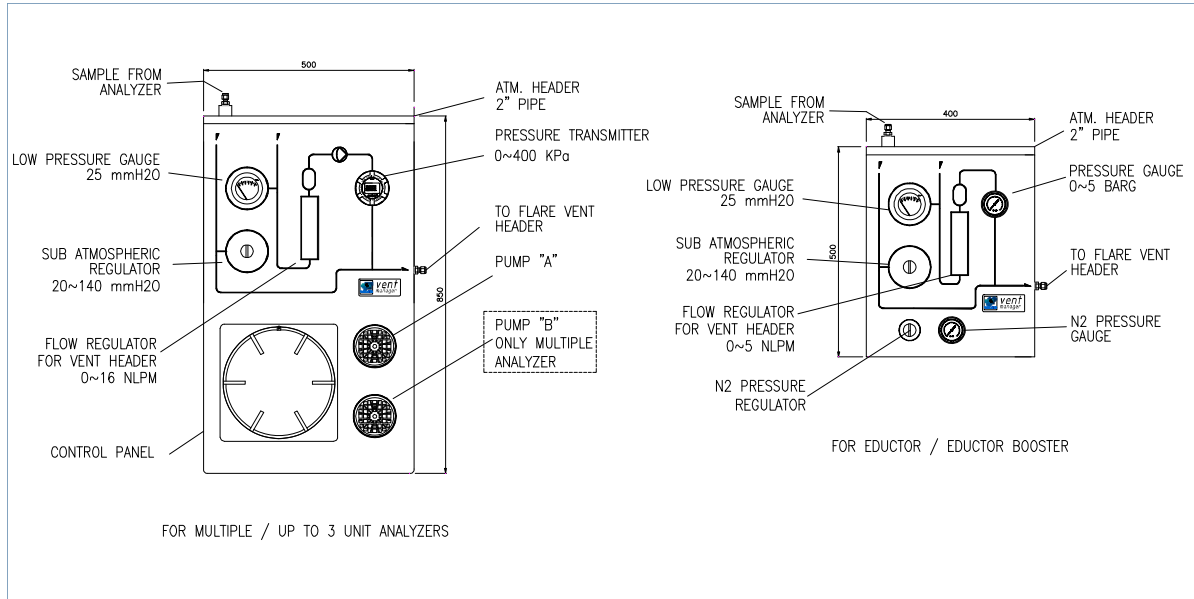
Analyzer vent flow : 1-7 L/min

Test Flare Backpressure : 0~35 psi(0~2.4 barg)



Preliminary

DIMENSION DRAWING :



TECHNICAL SPECIFICATIONS :

TYPE	HIGH CAPACITY MODEL FOR MULTIPLE ANALYZERS	TYPE	LOW CAPACITY MODEL FOR SINGLE ANALYZER (UP TO 3 UNIT)
CONTROL BOX MATERIAL	Copper free Aluminum Alloy (Cu<0.1%)	CONTROL BOX MATERIAL	Copper free Aluminum Alloy (Cu<0.1%)
PUMP MATERIAL	316L SS (Stainless steel)	PUMP MATERIAL	316L SS (Stainless steel)
Ex. TYPE	Ex-d IIC T6/T5/T4 Gb	Ex. TYPE	Ex-d IIC T6/T5/T4 Gb
POWER SUPPLY	100-240VAC, 1-phase, 50-60Hz	POWER SUPPLY	100-240VAC, 1-phase, 50-60Hz
TEMP. RANGE	-10°C to 60°C (-20°F to 140°F)	TEMP. RANGE	-10°C to 60°C (-20°F to 140°F)
PUMP DATA	Max. 7.5 L/min @ 3.4 barg or Max. 15 L/min @ 1.7 barg	PUMP DATA	7.5 L/min @1.7 barg
FLOW RANGE	1.4 - 14 L/min	FLOW RANGE	0.5~5 L/min
ATM. CONTROL	25 ± 7 mmH2O	ATM. CONTROL	25 ± 7 mmH2O
DIMENSIONS	500(W) x 850(H) x 350(D)	DIMENSIONS	500(W) x 850(H) x 350(D)
WEIGHT	Approximately 45 kg (100 lbs)	WEIGHT	Approximately 36 kg (80 lbs)

ORDERING NO.: Standard : VM2-PHG1

If applicable, you can leave this blank.

VM2	P		H		G		1		C	
Vent Manager II	Vent Type		Analyser Vent Capacity		Flow meter option		Vent pressure Transmitter		Over pressure for ATM. vent header	
	Pump	P	0~5 l/min (Low capacity) up to 3 unit	L	Glass flowmeter with neeble valve	G	None	1	None	Blank
	Eductor (*) (Need call for consultant)	E	0~14 l/min (High capacity) multiple Analyzer	H	Armored flowmeter with neeble valve	A	Pressure Transmitter 0~400 Kpa	2	Check valve (235 mmH2O)	C

(*) We can provide design concept of educator type with N2