

DATA SHEET

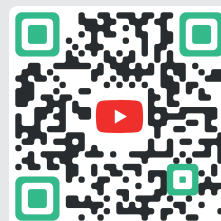


PD-Monitor™ Description:

A wall mounted and factory tested differential pressure monitoring unit incorporating controller, #2 pressure transducers, 115V AC and enhanced BMS capabilities.

Product Code:

58760-PD



Technical Specification

Parameters:	Differential Pressure
IP Protection:	IP54
Mounting Position:	Internal Wall - Frost Free
Display:	Dot Matrix (Red)
Electrical Connections:	3FT 115V Power Cord (Supplied with B Type Plug)
Power Supply:	Connected to isolator (by others)
Dimensions:	115v AC, 60 Hz, 13.5 mA
Weight:	7.9"x 5.9" x 3.3"
Ambient Operating Temperatures:	2.9 lbs
Pressure Sensor Cable:	>5°C to 45°C, <90% RH
Pressure Sensor Material:	Packard Plug + Cable (70.9" length)
Max Working Pressure (Sensors):	ANSI 316L
Differential Pressure Increments:	<435 PSI
Range of Pressure Differential:	1 PSI
4-20mA Sensor Connections:	1 to 101 PSI
Max Working Temperature (Sensor):	¼" NPT
Min Working Temperature (Sensor):	212°F
Medium:	-40°F
BMS Signal:	Water / Liquids 5 amp Dry Contact Relay Common Alarm and/or Modbus RS485 (Address List on Page 4) used to contact BMS System (Normally Open). BACnet or other communication gateway as required by others

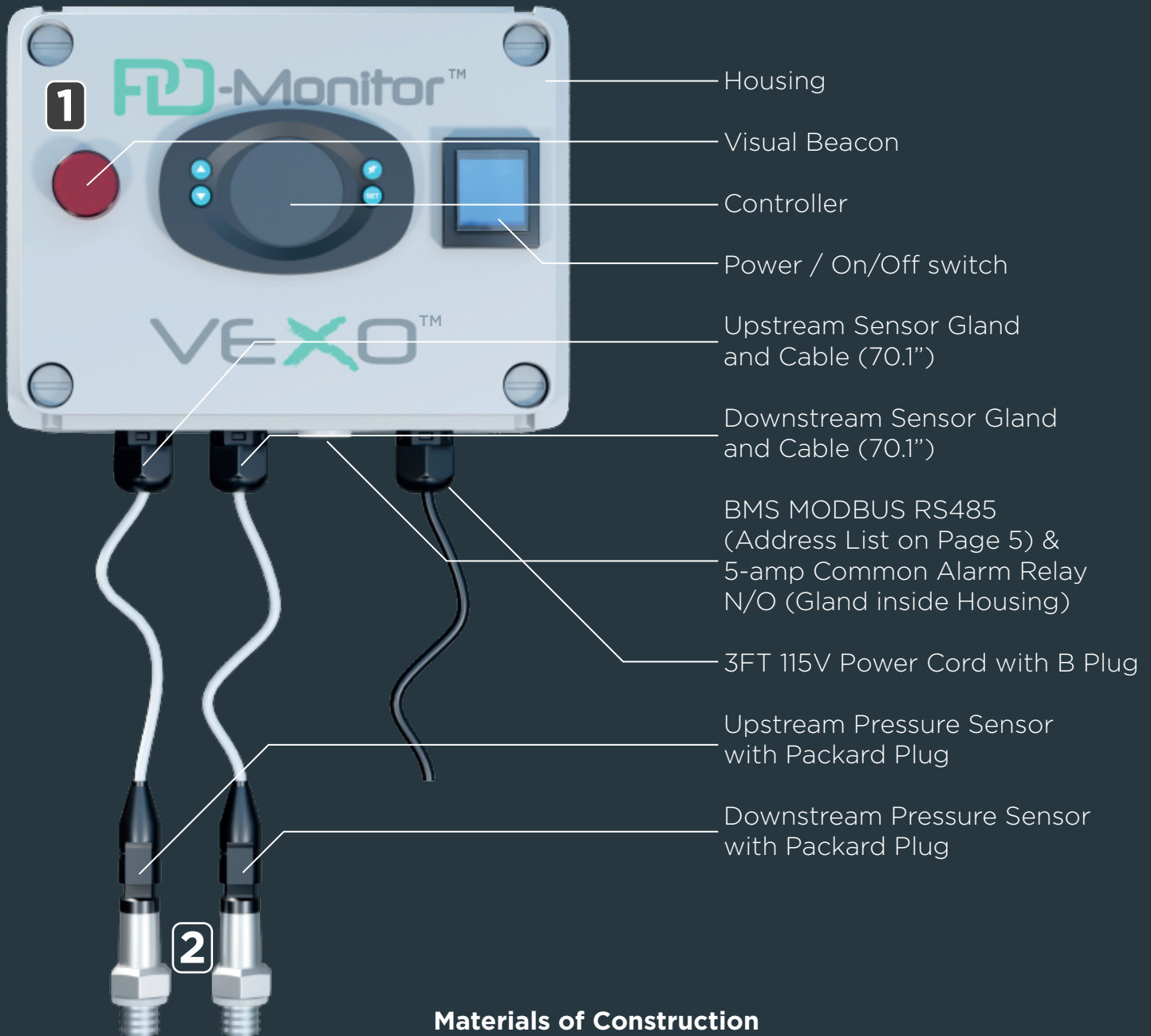
Applications -

The VEXO™ PD-Monitor™ is a flexible solution and ideally suited for commercial and industrial heating/cooling systems.

Blockages in plant equipment such as filters, strainers, plate heat exchangers and heater coils can have a detrimental effect on the system efficiency and building comfort.

VEXO™ PD-Monitor™ can be used to detect blockages and will alarm locally with audible buzzer and visual beacon and remotely via a BMS fault signal (relay / Modbus) when connected to a BMS system.

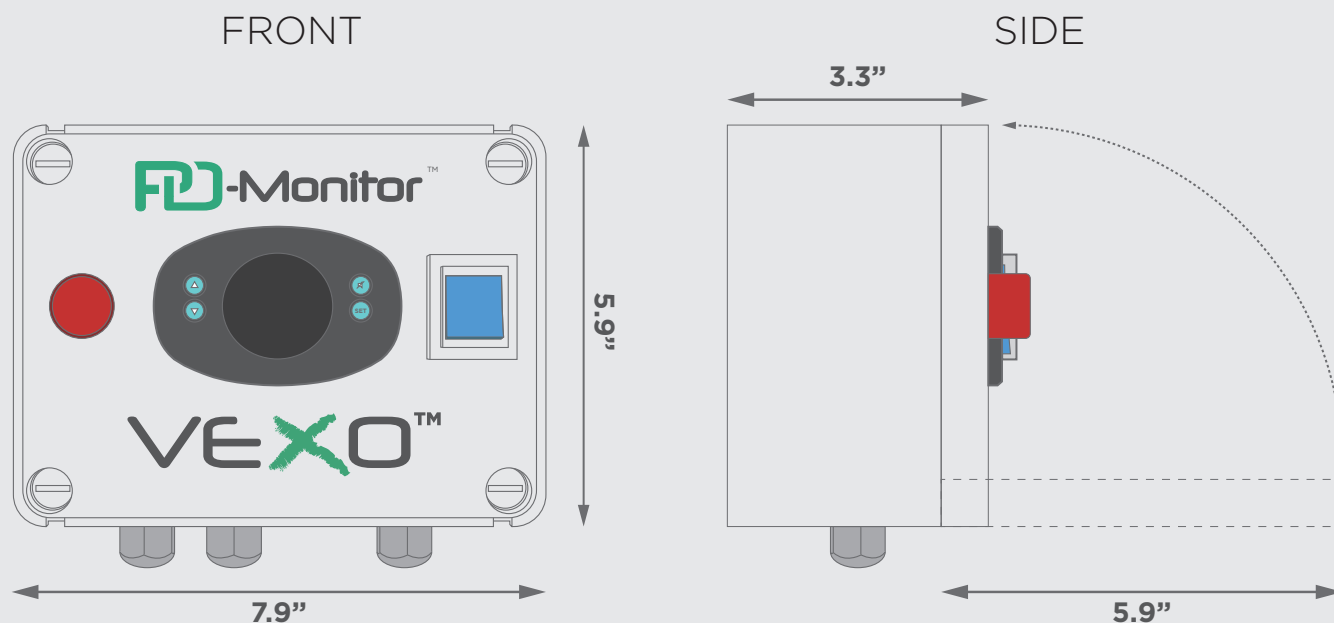
PD-Monitor™ ILLUSTRATION



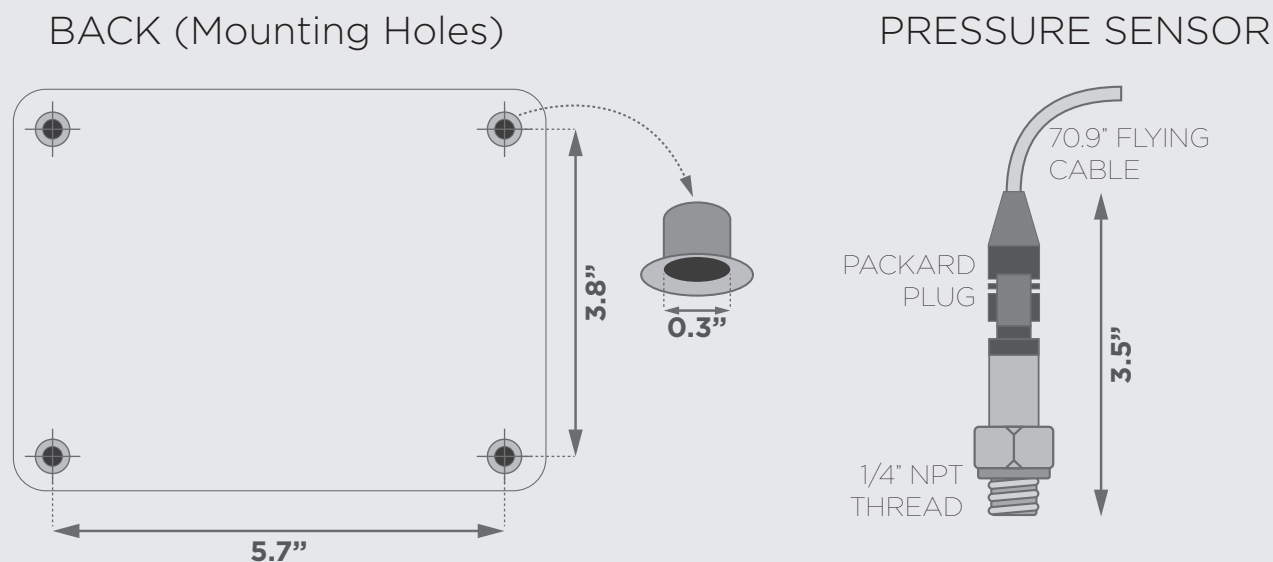
Materials of Construction

- | | |
|---------------------|---------------------------|
| 1. Housing: | Techno Polymer GWPLAST 75 |
| 2. Pressure Sensor: | ANSI 316L |

Dimensions



Leave at least 3.9" free space in all directions to ensure sufficient access and 7.9" from the front of the unit to enable unhindered opening of the front service panel.



MODBUS Address List

Should the installation require more than a dry contact relay alarm, the PD Monitor Modbus table below can be used via Modbus to BACnet, or other communication converter as required – installation by others.

X VARIABLE ADDRESS	DENOMINATION	TYPE	X VARIABLE FORMAT	DESCRIPTION	DATA CONVERSION	UNITS	RANGE OF X VARIABLE
40001	Pressure Sensor 1	read	word	Value of sensor 1		decimal Bar / PSI	
40002	Pressure Sensor 2	read	word	Value of sensor 2		decimal Bar / PSI	
40003	Current	read	word	Value of the actual current through pump		mA	
40004							
40005							
40006	Pump Relay	read	word	Status of Pump Relay	0=OFF 1=ON	BAUD RATE	9600
40007	Filter Pump Alarm Relay	read	word	Status of Pump alarm Relay	0=OFF 1=ON	WORD LENGTH	8
40008	General alarm Relay	read	word	Status of General Alarm Relay	0=OFF 1=ON	PARITY	NO
40009	Buzzer	read	word	Status of Buzzer	0=OFF 1=ON	STOP BITS	1
40010							
40011							
40012							
40013	Filter Blocked Alarm	read	word	Status of Filter Blocked Alarm	0= Alarm Not Present 1=Alarm Present		
40014	Pump Failure Alarm	read	word	Status of Pump Failure Alarm	0= Alarm Not Present 1=Alarm Present		
40015	Sensor 1 Alarm	read	word	Status of Sensor 1 Alarm	0= Alarm Not Present 1=Alarm Present		
40016	Sensor 2 Alarm	read	word	Status of Sensor 2 Alarm	0= Alarm Not Present 1=Alarm Present		
40017							
40018							
40019							
40020							
40021							
40022							
40023	Par. Pressure Differential	read/write	word	value of the parameter		decimal Bar / PSI	1->70
40024	Par. Alarm Relay Contact	read/write	word	value of the parameter	0=Normally Open 1=Normally Close		0->1
40025	Par. Minimum Pressure	read/write	word	value of the parameter		decimal Bar / PSI	0-> Max Pressure
40026	Par. Maximum Pressure	read/write	word	value of the parameter		decimal Bar / PSI	Min Pressure->30
40027	Par. Current Sense	read/write	word	value of the parameter	4=Not Active 5=Active		4->5
40028	Par. Bar / Psi Unit	read/write	word	value of the parameter	2=Bar 3=PSI		2->3
40029	Par. Buzzer Enable	read/write	word	value of the parameter	4=Not Active 5=Active		4->5
40030	Par. Pressure differential message	read/write	word	value of the parameter	1. Blocked Filter 2. PHX High DP - Service Now 3. High DP on Coil - Service Now 4. High DP on Strainer - Service Now 5. High DP - Service Required		1->5
40031	Par. ID Number	read/write	word	value of the parameter			0->99
40032	Par. Pump Hours	read/write	word	value of the parameter		hours	0->9999
40033	Par. Alarm Counter	read/write	word	value of the parameter			0->1000

‘exclusively available from’

Skidmore[®]
A Swan Group Company

1875 Dewey Avenue, Benton Harbor, MI 49022 USA

(269) 925-8812

www.skidmorepump.com