## Descriptions

The Pressure Monitor is used to measure differential pressure in the range of +/-1 full Scale, +/-8inWC, 100PSI, 250PSI. It combines precision high sensitivity silicon sensing capabilities and the latest ASI C technology to substantially reduce offset errors due to changes in temperature, stability to warm up, long term instability and position sensitivity.

It features an LCD to display the pressure value and fieldselectable output signal types for the most flexible application. The device has an on-board auto-zero function. I t also features two optional output : PID control type and transducer type.



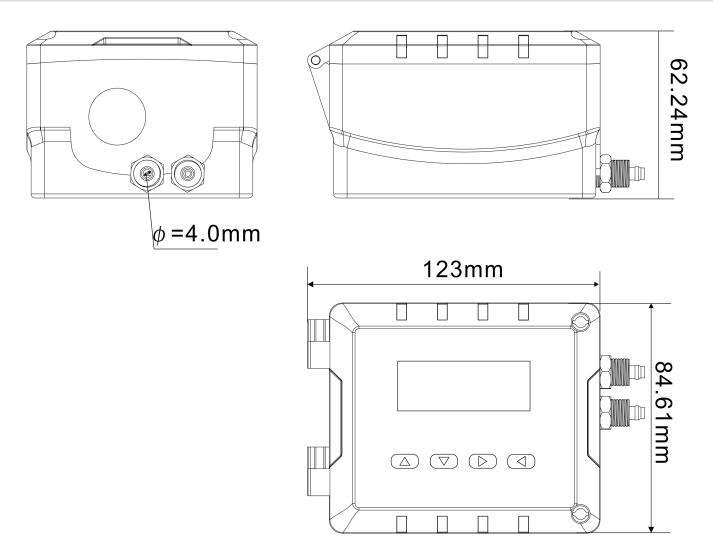
#### Features:

- -LCD indication
- -Jumper selectable outputs
- -Precision silicon sensor
- -Functional and attractive enclosure
- -Installer friendly wiring access
- -2.5% Typical Error over +10C to +60C with Auto Zero
- -6.25% Maximum Error over +10C to +60C without Auto Zero
- -Temperature Compensated over +10C to +60C
- -Differential Input
- -8 units available: inWC, inHg, mmHg, PSI, atm, Bar, Pa, & kg/cm

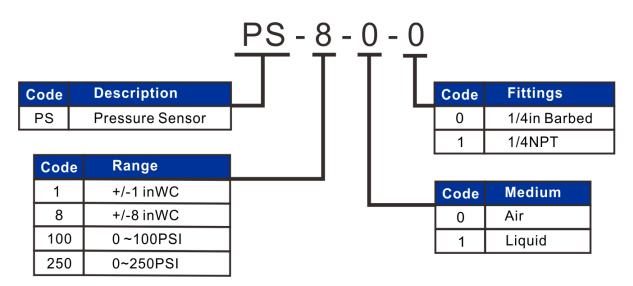
## **Specifications**

Supply Voltage	15~24VAC/DC ± 10%		]				
Power Con-	50mA @ 12VDC						
sumption							
Relay Contacts Rating	0.5A / 125VAC, 1A / 24VDC						
Analog	Analog outputs setting 0-5V, 0-10V, 4-20mA						
Output							
	Operating Temperature	Accuracy	Burst Pres-				
			sure				
PS-1-0	0 ~ 70°C	+/-1.5% full scale	300inH2O				
PS-8-0	10 ~ 60°C	+/-2.5% full scale	5PSI				
PS-100-1	-40 ~ +85°C	+/-0.5% full scale	200PSI				
PS-250-1	-40 ~ +85°C	+/-0.5% full scale	500PSI				
PS-100-1, PS-2	250-1						
Wetted Parts: S	Silicon, should only be in	contact with media	such as water				
Enclosure	Flammability rating UL	94HB					

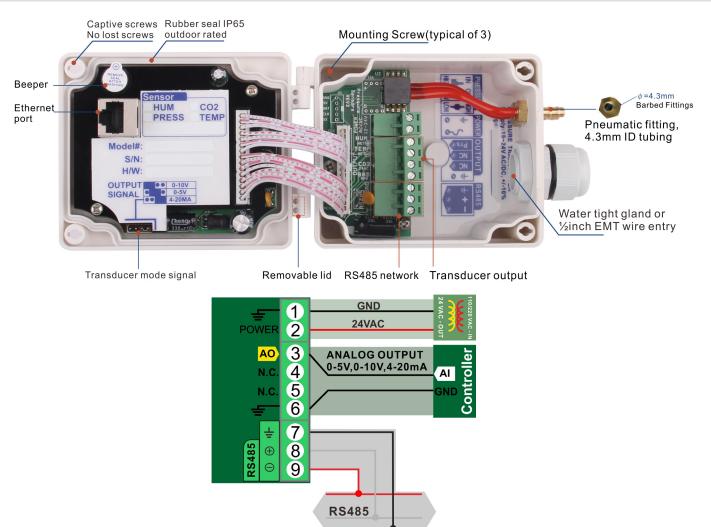
## Dimension



### **Part Number Scheme**



## Wiring&Highlights



### **Register List**

#### Modbus

Pressure Sensor uses MODBUS protocol to communicate with others.Below is the register list.

Ad- dress	Bytes	Register and Description
6	1	ADDRESS. Modbus device address.
21	1	Protocol switch. 3 = MODBUS,0=Bacnet MSTP
185	1	Bau - Baudrate, 0=9.6kbaud, 1=19.2kbaud, 2=38.4kbaud 3=57.6kbaud, 4=115.2kbaud
711	2	Pressure value reading.

#### Bacnet

Pressure Sensor also uses Bacnet protocol to communicate with others.Below is the register list.

Variable	Variable and Description
4	ID Adrress
8	Uart BaudRate.0=9.6kbaud, 1=19.2kbaud 2=38.4kbaud 3=57.6kbaud 4=115.2kbaud
10	Protocol
Input	Input and Description
4	Pressure

4	Pressure
Output	Output and Description
1	Pressure analog output

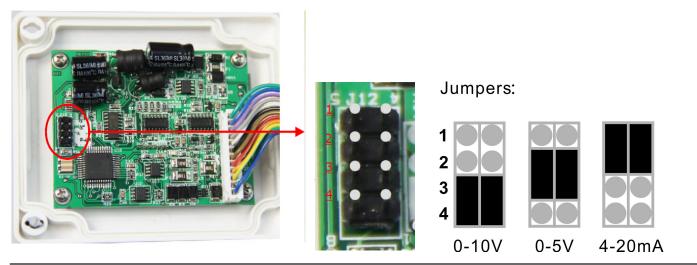
\*For more register list details,please downloaded an excel spreadsheet (ModbusBacnetRegisterList. xls) as the following link: https://tinyurl.com/ybaj9d3u.

#### **Output Jumper Settings**

In this mode the device acts as a traditional transducer where it sends out three analog signals, all you need to do is to set this one single jumper to the appropriate signal type: 4-20mA, 0-10V, or 0-5V.



### PS/rev13 jumper settings



### Instructions

1) How is it programmed to change the command value etc?

Mostly you'll want to use the T3000 front end to configure PI D. For simple transducer mode setups you can get by with just the keypad. The PI D setup will be too complex for the keypad I think, use T3000. You'd need an RS485 converter, there are a few on the web site. Current sensor name, do not need to be changed by user

2) There are four icons, two setpoints and two menus. Under the menu column, it provide you 7 choices.



Previous item select

Increase setpoint

Next item select

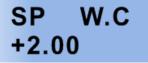
Decrease setpoint

PSensor Type	26PCDFA, MPXV7002
Prs_unit	W.C, bar, atm, kg/cm <sup>2</sup> , inHg, KP, Psi, mmHg
Min/ Max	
Prs_c al	
Prs_mode	Diff, Gauge
Prs_def	Yes, No

3). Here are the instructions about how to use the key and together with some screen shot for the system.

# -18.10 W.C

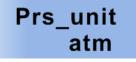
a. Normal state: show pressure value and unit.



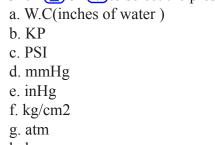
b. When click ( or , it will increase or decrease setpoint.



c. Click  $\triangleleft$  or  $\triangleright$ , it will go into item adjust item as the photo shows. Click  $\triangleleft$  or  $\bigtriangledown$ , you can select MPXV7002 or 26PCDDFA. Click  $\triangleleft$  or  $\triangleright$ , go to the previous or next menu item.

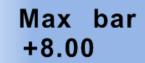


d. Click  $\frown$  or  $\bigcirc$  to select the pressure unit.



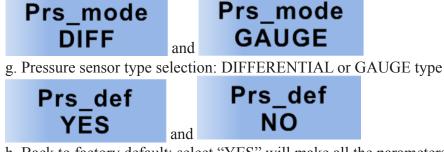
h. bar





e. Pressure range set: this relative with the output type. For example: if set output type to transducer mode(default mode): the output will be : output\_type \* current\_pressure / (max\_pressure – min\_pressure) output\_type: 0-10V or 0-5V or 4-20mA.

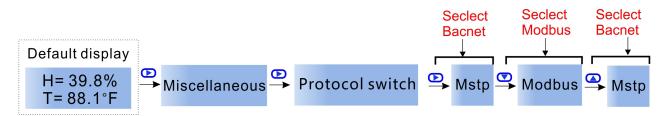
f. Pressure zero calibration: using ( ) or ( ) adjust current pressure to zero to do the zero calibration



h. Back to factory default: select "YES" will make all the parameters of unit back to factory value.

#### Modbus/Bacnet switch

To select the protocol as Modbus or Bacnet, Press to choose Miscellaneous, then press to choose Protocol switch, press , it reads Mstp, which means you have seclected Bacnet; if you want to switch to Modbus, press , or back to Bacnet.



Or you can check the Bacnet Resgister List, No.9: Protocol switch. 0 = MODBUS, 1=MSTP.

## Calibrations

1). Connect pressure sensor to PC by RS485.

2). Open T3000 and click the button to scan. The following view will appear then close it as the picture shows.

		ation Cont	rol Miscel	laneous H	lalo			
				to sc				2. Click it to
ig_1->Sub_net1					• Ф X			
					П п	Address	0	Serial Number 0
Scan Result								
SCAN RESULT:								
Model	Building Floo	r Room	Sub_net	Serial#	Address	Port	Protocol	
ressure Senso E			Sub_net1	80145	254	COM3	Modbus 485	
:65729-254-19. E			Sub_net1	65729	192.168.0.12	10000	TCP/IP	
131269-200-19 E	Building_1 floor	r1 room1	Sub_net1	131269	192.168.0.14	10000	TCP/IP	

3). Click pressure sensor log and the T3000 will show all the information of pressure sensor.

w Database Calibration Control Miscell	laneous Help
🔪 🧠	
et1 🔻 🕂 👻	
1	ID Address 254 Serial Number 80145 Firmware Version 34.6
or1	Model Pressure Sensor Hardware Version 13 PIC 13
I room1	
×  CM5:14715-254-192.168.0.3	Keypad Lock Full Menu
×  CM5:80251-254-192.168.0.17	Input Value Units Auto/Manual Filter
····× 📁 CM5_Ethernet:0-254-192.168.0.:	
× 📁 CM5_Ethernet:70094-254-192.10	Pressure 18.17 W.C V Auto V
× 📁 CM5_Ethernet:80105-254-192.1(	
× CO2:79181251	Output Type Transducer   Output Table
× 👖 MiniPanel:131243-254-192.168.(	Min -8.00 Max 8.00
👖 MiniPanel:131269-200-192.168.(	
× 👖 MiniPanel:188-254-192.168.0.16	Output Range 0-10V  Signal 10.00 V
× 👔 MiniPanel:65684-254-192.168.0.	
····· 👖 MiniPanel:65729-254-192.168.0. ≡	
× MiniPanel:65730-254-192.168.0.	
👖 MiniPanel:65768-254-192.168.0.	
× MiniPanel:65770-254-192.168.0.	
Pressure Sensor:80145254	<ul> <li>Click it</li> </ul>
VIII. T3_DT10-1254	

Model	Pressure Senso	r Hardwa	re Version	13	PIC	13		1		Pressure	AD
							This	s is yo		295	7
Keypad Lock	Full Menu		▼ Type 2	6PCDEA		6-			-	677	19
keypau Lock	Turriena						рі	roduct	4	-1	
put	Value	Units	Auto/Manual	Filte	er				5	-1	
_			· · ·	_					6	-1	
ressure 1	3.65	W.C 👻	now	- 10				-	7	-1	
			S	et trai	nsduc	er mo	ode	-	8	-1	
			_	nd AC					9	-1	
Min -8.0	0	Max 8.00									
Output Ra	nge 0-10V	▼ Signal	10.00 V								

4).	Make	sure	your	sets	are	same	to	the	belo	)W.
-----	------	------	------	------	-----	------	----	-----	------	-----

ID Address		Serial Number	80145	Firmware Version	34.6	Pre	ssure Cali	bration Table Pressure	AD
Model	Pressure Senso	r Hardware	Version 13	PIC	13	-	1	0	
							2	295	7
Keypad Lock	Full Menu		Type 26	PCDFA	•		3	677	193
							4	-1	-1
nput	Value	Units A	uto/Manual	Filter		_	5	-1	-
ressure 1	9.33		uto 🔻	10		-	6	-1	-
ressure 1	9.33					-	8	-1	-
			Pressu	ire Value		_	9	-1	-
Output Type							10	-1	
Min <sup>-8.0</sup> Output Ra		Max 8.00		Ana Ange Set	log Outi	put Value	9		

### Connecting to the device using Bacnet

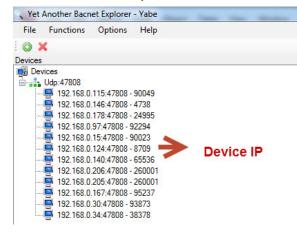
The device can be connected using Bacnet.Below are the steps:

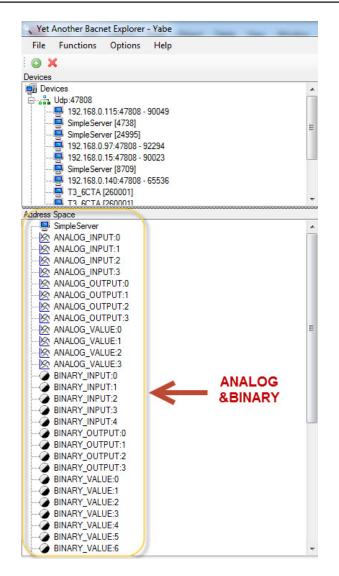
Step1.Download Yabe software as the link: <u>https://www.temcocontrols.com/ftp/software/08Yabe.zip</u> and install it.

Step2.Connect the device to the computer, select Bacnet protocol. Start the Yabe software, add the

		Yet A	nother Bacnet Expl	orer - Yabe	100 C
		File	Functions Optio	ons Help	
Vet Another Bacne		Devices			
File Functions	Optio	Devi	ces Search		X
			Search	and another	
			General		
Devices			Retries 3	Timeout 100	00 🚖 00
Add device (searc	h)		BACnet/IP over U	ldo	
			Port	BACO 🚔	K
		Address	La cal ca de stat	192.168.0.45	
			Local endpoint	192.168.0.40	- Add
			BACnet/MSTP ov	ver serial	
			Port		-
			Baud	19200 ≑	
			Source Address	-1 ≑	
			Max Master	127 🚖	
			Max Frames	1	Add
		Log	BACnet/PTP ove	r serial	
		Unconfi Unconfi	Port		-
		Unconfi Unconfi	Baud	19200 🚖	
		Unconfi Unconfi			
		Unconfi	Password		Add
		Unconfi Unconfi	BACnet/Ethemet		k
		Unconfi Unconfi			
		Unconfi	Interface		Add
		Unconfi Unconfi			-
		Unconfi Unconfi			
		Chiconni (			

Step3.You can find your device IP as below.Double click the left mouse button,you can find your device and the bacnet information in the "Adress Space" tab.





Step4.In the "Address Space" tab,click the "ANALOG\_VALUE", it will show the information of "log ANALOG\_VALUE" in the BacnetProperty tab. And it 's the same with "ANALOG\_OUTPUT" and other items.

Vet Another Bacnet Explorer - Yabe	the loss of the loss of the loss	
File Functions Options Help		
Ovices	Subscriptions, Properties	
Devices           Is2, Udp.47808           Is2, 188,0, 115,47808,90049           SimpleServer [4738]           Is3, 188,0, 175,47808,90249           Is2, 188,0, 15,47808,9023           Is3, 188,0, 15,47808,9023           Is3, 188,0, 15,47808,9023           Is3, 188,0, 15,47808,9023           Is3, 188,0, 16,47808,-55536           Is3, 12, 188,0, 140,47808,-55536           Is3, 6CTA (260001)           Is3, 6CTA (26001)           Is3, 6CTA (26001)		ANALOG VALUE 2 0 : Normal ORJECT_ANALOG_VALUE:2 ANALOG VALUE 2 2 : Object Analog Value False 0 Object[] Array 0 0000 98 : Percent

# Register List

Address	Bytes	Register and Description
0 to 3	4	Serial Number - 4 byte value. Read-only
4 to 5	2	Software Version – 2 byte value. Read-only
6	1	ADDRESS. Modbus device address
7	1	Product Model. This is a read-only register that is used by the microcontroller to determine the product
8	1	"Hardware Revision. This is a read-only register that is used by the microcontroller to determine the hardware rev"
9	1	PIC firmware version
10	1	"PLUG_N_PLAY_ADDRESS, 'plug n play' address, used by the network master to resolve address conflicts. See VC code for algorithms"
15	1	Base address selection.0 = Protocol address,1 = PLC address.
16	1	Firmware Update Register, used to show the status of firmware updates
11 to 100		Blank, for future use
101	2	Pressure value and calibrate.
102	2	COOLING_VALVE, a number from 0-1000 representing 0% (closed) to 100% (open)
103	2	HEATING_VALVE, a number from 0-1000 representing 0% (closed) to 100% (open)
104	2	PID, current PI calculation for cooling term
105		NOT USED FOR REV 25
106	1	COOL_HEAT_MODE, heating or cooling mode. 0=none, 1=cooling, 2=heating.
107	1	MODE_OPERATION, heating or cooling state: 0-7 = coasting, cooling 1,2,3, heating 1,2,3
108	1	DIGITAL_OUTPUT_STATE, bit 0 thru 4 = relay 1 thru 5.
112	1	DAC_OFFSET , Calibration data for the 0-10VDC signal, internal variable maintained by tstat(default 100)
113	1	NOT USED FOR REV 25
114	1	PTERM , proportional term for PI calculation
115	1	ITERM , integral term for PI calculation
118	1	SEQUENCE , control sequence i.e. fancoil, heatpump etc. (default 1)
119	1	COOLING_DEADBAND, offset from setpoint for cooling to begin. Units of 0.1 deg.
120	1	HEATING_DEADBAND, offset from setpoint for heating to begin. Units of 0.1 deg.
122	1	FAN , number of fan speeds. Single speed = 1 up to three speed fan = 3
123	1	NIGHT_HEATING_DEADBAND , heating deadband in the night time or OFF mode. Units of 1 deg.
124	1	NIGHT_COOLING_DEADBAND, cooling deadband for the night (OFF) mode. Units of 1 deg.
125	1	APPLICATION , application: 0 = office, 1 = Hotel or Residential(default 1)
126	1	POWERUP_SETPOINT, setpoint on power up
127	1	"POWERUP_MODE, mode of operation on power up. 0 = power off, 1 = power up in on mode, 2 = last value (default), 3 = auto mode."
129	1	"AUTO_ONLY , enables or disables manual mode. 0 = Manual Fan Modes 1-x Allowed (depending on R122 value, 1 = Auto Mode Only, 2 = DDC mode,the user can not change setpoint and fan speed from keypad."
131	1	MAX_SETPOINT, Setpoint high, the highest setpoint a user will be able to set from the keypad.

Address	Bytes	Register and Description
132	1	MIN_SETPOINT, Setpoint Low, the lowest setpoint a user will be able to set from the keypad.
133	1	"SPECIAL_MENU_LOCK, Special menu lockout via keypad, serial port only, 0=Full Menu, 1=Menu Disabled, 2=User Menu, 3 = The user need adjust setpoint in menu mode,4=disable display"
135	1	current setpoint
137	1	FAN_SPEED, current operating fan speed
		Relay Output Tables (bit0 = relay1, bit1 = relay2, bit2 = relay3, bit3 = relay4, bit4 = relay5) "Fan0 table is for the off state. Fan1, Fan2, and Fan3 are for the manual states. Fan4 is for the Auto state. These states are controlled by the user." The mode of operation (coasting, cooling, heating) is determined by the PID parameter.
138	1	FAN0_OPERATION_TABLE_COAST
139	1	FAN0_OPERATION_TABLE_COOL1
140	1	FAN0_OPERATION_TABLE_COOL2
141	1	FAN0_OPERATION_TABLE_COOL3
142	1	FAN0_OPERATION_TABLE_HEAT1
143	1	FAN0_OPERATION_TABLE_HEAT2
144	1	FAN0_OPERATION_TABLE_HEAT3
145	1	FAN1_OPERATION_TABLE_COAST
146	1	FAN1_OPERATION_TABLE_COOL1
147	1	FAN1_OPERATION_TABLE_COOL2
148	1	FAN1_OPERATION_TABLE_COOL3
149	1	FAN1_OPERATION_TABLE_HEAT1
150	1	FAN1_OPERATION_TABLE_HEAT2
151	1	FAN1_OPERATION_TABLE_HEAT3
152	1	FAN2_OPERATION_TABLE_COAST
153	1	FAN2_OPERATION_TABLE_COOL1
154	1	FAN2_OPERATION_TABLE_COOL2
155	1	FAN2_OPERATION_TABLE_COOL3
156	1	FAN2_OPERATION_TABLE_HEAT1
157	1	FAN2_OPERATION_TABLE_HEAT2
158	1	FAN2_OPERATION_TABLE_HEAT3
159	1	FAN3_OPERATION_TABLE_COAST
160	1	FAN3_OPERATION_TABLE_COOL1
161	1	FAN3_OPERATION_TABLE_COOL2
162	1	FAN3_OPERATION_TABLE_COOL3
163	1	FAN3_OPERATION_TABLE_HEAT1
164	1	FAN3_OPERATION_TABLE_HEAT2
165	1	FAN3_OPERATION_TABLE_HEAT3

Address	Bytes	Register and Description
166	1	FANAUT_OPERATION_TABLE_COAST
167	1	FANAUT_OPERATION_TABLE_COOL1
168	1	FANAUT_OPERATION_TABLE_COOL2
169	1	FANAUT_OPERATION_TABLE_COOL3
170	1	FANAUT_OPERATION_TABLE_HEAT1
171	1	FANAUT_OPERATION_TABLE_HEAT2
172	1	FANAUT_OPERATION_TABLE_HEAT3
173	1	VALVE_OPER_TABLE_COAST, Analog output state for each of the 7 modes of operation
174	1	VALVE_OPER_TABLE_COOLING1
175	1	VALVE_OPER_TABLE_COOLING2
176	1	VALVE_OPER_TABLE_COOLING3
177	1	VALVE_OPER_TABLE_HEATING1
178	1	VALVE_OPER_TABLE_HEATING2
179	1	VALVE_OPER_TABLE_HEATING3
182	1	Night heating setpoint
183	1	Night cooling setpoint
184	1	Info Byte, this register contains info about the state of the tstat.
		"Bit 0 is read/write and shows the occupancy mode. Bit 0 = 0 means unoccupied.
		Bit 0 = 1 means occupied. "
		"Bit 1 is read only and shows the reset state. Bit 1 = 0 means hardware restart. Bit 1 = 1 means software restart. "
		"Bit 2 is read/write and is the reset prevention bit. Bit 2 = 0 means the tstat will automatically
		reset after certain registers are changed. Bit 2 = 1 prevents this reset.
		Changing this bit from 1 to 0 will trigger a reset."
		Bit 3 is the state of the digital input. Bit 3 = 1 means logic high. Bit 3 = 0 means logic low. Bit 4,5: Reserved, used for some non standard occupancy sensor logic
		Bit6 0=no delay on modbus reply, 1= 10ms delay before send for slower PLC's to switch from TX
		to RX
		"Bit7, RS485/wireless communications mode:
		The normal communications method is a bus topology using RS485 which uses a 'transmit enable'
		or TX_EN line on the RS485 hardware whenever transmission from the thermostat to the bus takes
		place. For wireless devices this is typically taken care of by the radio module itself so it is not needed.
		Default = 0,
		When bit7 is 0, the RS485 chip, TX_EN line is used for normal RS485 bus communications.
		When bit7 is 1, the TX_EN line is not used, allowing the radio module to communicate one-to-one
		with the Tstat"
185	1	Bau - Baudrate, 0=9.6kbaud, 1=19.2kbaud, 2=38.4kbaud 3=57.6kbaud, 4=115.2kbaud
186	1	Ou1 - Output1 Scale - 1=0-10V, 2=0-5V, 5= 4-20mA(for pressure)
213	1	Pressure sensor filter, FIL.
214		Heating cooling mode configuration, HC, 0=PID, 1=Keypad, 2=Digital_in1, 3=Digital_in1, 4=Analog_in1, 5=Analog_in2
215		Internal Temperature Sensor IC - Shows the filtered, calibrated value of the internal temperature sensor IC
216		Internal Thermistor Sensor - Shows the filtered, calibrated value of the internal thermistor sensor

Address	Bytes	Register and Description
217	2	Calibration Internal Thermistor - Calibration value used on the internal thermistor
218	2	Calibration Analog Input2 - Calibration value used on the analog input 2
219	2	Lookup Table 1 - 0.0V value Sensor value that corresponds to 0.0V
220	2	Lookup Table 1 - 0.5V value Sensor value that corresponds to 0.5V
221	2	Lookup Table 1 - 1.0V value Sensor value that corresponds to 1.0V
222	2	Lookup Table 1 - 1.5V value Sensor value that corresponds to 1.5V
223	2	Lookup Table 1 - 2.0V value Sensor value that corresponds to 2.0V
224	2	Lookup Table 1 - 2.5V value Sensor value that corresponds to 2.5V
225	2	Lookup Table 1 - 3.0V value Sensor value that corresponds to 3.0V
226	2	Lookup Table 1 - 3.5V value Sensor value that corresponds to 3.5V
227	2	Lookup Table 1 - 4.0V value Sensor value that corresponds to 4.0V
228	2	Lookup Table 1 - 4.5V value Sensor value that corresponds to 4.5V
229	2	Lookup Table 1 - 5.0V value Sensor value that corresponds to 5.0V
230	2	Lookup Table 2 - 0.0V value Sensor value that corresponds to 0.0V
231	2	Lookup Table 2 - 0.5V value Sensor value that corresponds to 0.5V
232	2	Lookup Table 2 - 1.0V value Sensor value that corresponds to 1.0V
233	2	Lookup Table 2 - 1.5V value Sensor value that corresponds to 1.5V
234	2	Lookup Table 2 - 2.0V value Sensor value that corresponds to 2.0V
235	2	Lookup Table 2 - 2.5V value Sensor value that corresponds to 2.5V
236	2	Lookup Table 2 - 3.0V value Sensor value that corresponds to 3.0V
237	2	Lookup Table 2 - 3.5V value Sensor value that corresponds to 3.5V
238	2	Lookup Table 2 - 4.0V value Sensor value that corresponds to 4.0V
239	2	Lookup Table 2 - 4.5V value Sensor value that corresponds to 4.5V
240	2	Lookup Table 2 - 5.0V value Sensor value that corresponds to 5.0V

Address	Bytes	Register and Description
241	2	Universal PID input select, 0=none, 1=analog_in1, 2=analog_in2
242	2	Universal PID upper deadband
243	2	Universal PID lower deadband
244	2	Universal PID pterm
245	2	Universal PID iterm
246	2	Universal PID setpoint
252	1	Output 6 PID Control
254	1	Universal PID Output - Coasting
255	1	Universal PID Output - Cooling1
256	1	Universal PID Output - Cooling2
257	1	Universal PID Output - Cooling3
258	1	Universal PID Output - Heating1
259	1	Universal PID Output - Heating2
260	1	Universal PID Output - Heating3
		Analog Output Tables (bit0,1=analog out1, bit2,3=analog out2, 00=0%, 01=0-100%, 11=100%)
261	1	Universal PID Valve Output - Coasting
262	1	Universal PID Valve Output - Cooling1
263	1	Universal PID Valve Output - Cooling2
264	1	Universal PID Valve Output - Cooling3
265	1	Universal PID Valve Output - Heating1
266	1	Universal PID Valve Output - Heating2
267	1	Universal PID Valve Output - Heating3
268	1	Number of Heating Stages in Universal Table-(Maximum # of total heating and cooling states is 6)
269	1	Number of Cooling Stages in Universal Table-(Maximum # of total heating and cooling states is 6)
270	1	Universal PID
275	2	Universal Night Setpoint
276	1	Number of Heating Stages in Original Table - (Maximum # of total heating and cooling states is 6)
277	1	Number of Cooling Stages in Original Table - (Maximum # of total heating and cooling states is 6)
278	1	PID2 heating or cooling state.0=coasting, 1=cooling1, 2=cooling2, 3=cooling3, 4=heating1, 5=heat- ing2, 6=heating3, 14=cooling4, 15=cooling5, 16=cooling6, 17=heating4, 18=heating5, 19=heating6.
279	1	Valve travel time. The time of the valve travel from one end to another end. The units is second.
285	1	Valve percent. Show the valve opened how much percent. READ ONLY
309	1	Input auto/ manual enable
310	1	"Output auto/manual enable. Bit 0 to 4 correspond to output1 to output5, bit 5 correspond to output6(register 102), bit 6 correspond to output7(register 103). 0, auto mode; 1, manual mode."

Address	Bytes	Register and Description
311	1	Digital manual input. Write the manual value for digital input when digital input in manual mode.
319	1	The minimum device address can be set
320	1	The maximum device address can be set. The device address should between min and max ad- dress
326	1	Show the size of E2 chip. 0 = 24c02, 1 = 24c08/24c16.
338	1	Default occupied setpoint. Works in concert with the "occupied setpoint control register", register 339
		Analog Output Tables (bit0,1 =analog out1, bit2,3=analog out2, 00=0%, 01=0-100%, 11=100%)
351	1	Analog output OFF table, coasting mode
352	1	Analog output OFF table, cooling1 mode
353	1	Analog output OFF table, cooling2 mode
354	1	Analog output OFF table, cooling3 mode
355	1	Analog output OFF table, heating1 mode
356	1	Analog output OFF table, heating2 mode
357	1	Analog output OFF table, heating3 mode
407	1	the pressure sensor anolog value
408	1	the raw data of pressure
411	1	pressure sensor type.1=MPXV7002,2=26PCDFA
412	1	Pressure unit select. 1:W.C 2:KPa 3:Psi 4:mmHg 5:inches of Hg 6:Kg/cm2 7:atmosphere 8:bar
413	1	minimal pressure(0 to -1000), for example if current pressure unit is inch of water, -800 = -8inch if water
414	2	maxium pressure(0 to +1000) for example if current pressure unit is inch of water, +800 = 8inch if water
419		Pressure analog output select 0: output control by PID, for example if PID is 0 to 1000, output will be 0 to 10V 1:transduce mode, output voltage = (current pressure/(max pressure - min pressure)) x 10V
422	1	clear the pressure's offset
423	1	0-10V output calibration parameter,typical 15
424	1	4-20mA output calibration differentce,typical 95
425	1	4-20mA output calibration offset,typical 8
426	2	1st calibration pressure value
427	2	1st calibration voltage value
428	2	2nd calibration pressure value
429	2	2nd calibration voltage value
430	2	3rd calibration pressure value
431	2	3rd calibration voltage value
432-445	12	4th-10th calibration value
446-455	40	0-10V output output calibration value
456-465	40	4-20mA output output calibration value