

## PET

It is powered by 24 VDC / VAC. Connect 15 - 26 VAC / VDC at 500 mA to power this transmitter.

**RED** Wires = VAC

**BLACK** Wire = Ground

**WHITE** Wire = BACnet® / MSTP communication (SIG+ in RS485)

**GREEN** Wire = BACnet® / MSTP communication (SIG- in RS485)



## PET (with remote sensor)

It is powered by 24 VDC / VAC. Connect 15 - 26 VAC / VDC at 500 mA to power this transmitter.

**RED** Wires = VAC

**BLACK** Wire = Ground

**WHITE** Wire = BACnet® / MSTP communication (SIG+ in RS485)

**GREEN** Wire = BACnet® / MSTP communication (SIG- in RS485)

*3 Remote Wires:*

**BLACK** Wires = Ground (should be connected to black wire of remote sensor.)

**RED** Wire = 5 VDC (should be connected to red wire of remote sensor.)

**YELLOW** Wire = Signal (should be connected to yellow wire of remote sensor.)



## PET

It is powered by 24 VDC / VAC. Connect 15 - 26 VAC / VDC at 500 mA to power this transmitter.

**RED** Wires = VAC

**BLACK** Wire = Ground

**WHITE** Wire = BACnet® / MSTP communication (SIG+ in RS485)

**GREEN** Wire = BACnet® / MSTP communication (SIG- in RS485)



## PET (with remote sensor)

It is powered by 24 VDC / VAC. Connect 15 - 26 VAC / VDC at 500 mA to power this transmitter.

**RED** Wires = VAC

**BLACK** Wire = Ground

**WHITE** Wire = BACnet® / MSTP communication (SIG+ in RS485)

**GREEN** Wire = BACnet® / MSTP communication (SIG- in RS485)

*3 Remote Wires:*

**BLACK** Wires = Ground (should be connected to black wire of remote sensor.)

**RED** Wire = 5 VDC (should be connected to red wire of remote sensor.)

**YELLOW** Wire = Signal (should be connected to yellow wire of remote sensor.)



**Critical Environment Technologies Canada Inc.**  
Unit 145, 7391 Vantage Way, Delta, BC, V4G 1M3, Canada  
Toll Free: +1.877.940.8741  
Tel: +1.604.940.8741  
Fax: +1.604.940.8745  
[www.critical-environment.com](http://www.critical-environment.com)

© 2014 Critical Environment Technologies Canada Inc.  
All rights reserved. Data in this publication may change without notice.



[www.critical-environment.com](http://www.critical-environment.com)

# Generic Wiring Connection

## PET Series Z Model with 12 Volt Regulator

# Generic Wiring Connection

## PET Series Z Model with 12 Volt Regulator

**Critical Environment Technologies Canada Inc.**  
Unit 145, 7391 Vantage Way, Delta, BC, V4G 1M3, Canada  
Toll Free: +1.877.940.8741  
Tel: +1.604.940.8741  
Fax: +1.604.940.8745  
[www.critical-environment.com](http://www.critical-environment.com)

© 2014 Critical Environment Technologies Canada Inc.  
All rights reserved. Data in this publication may change without notice.



[www.critical-environment.com](http://www.critical-environment.com)

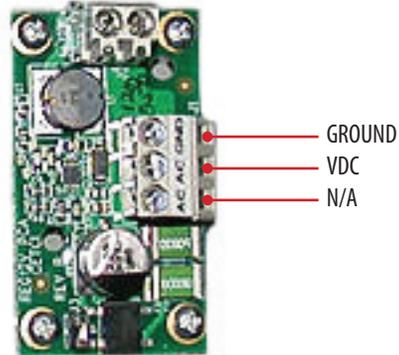
The installer should provide 4 or 5-conductor, shielded wire or cable suitable for use in a RS485 network wiring system. Wiring must be "daisy-chain" network style wiring with four wires in and four wires out to the next device.

The PET series BACnet® transmitter is a low voltage powered device. Any application of operating voltages higher than indicated in the specification may result in damage. Double check wiring connections prior to powering the transmitter. Damage from incorrect wiring connections or from too much voltage applied are not covered under warranty.

The PET solid-state version is capable of working with a remote solid state sensor as an alternative to an integral sensor. This is useful for applications such as heavier-than-air gases such as propane. PET can be installed at 4 - 6 ft from the floor then the installer drops a short length of conduit and wire to a second junction box mounted at 6" from the floor with the remote sensor installed in the bottom.

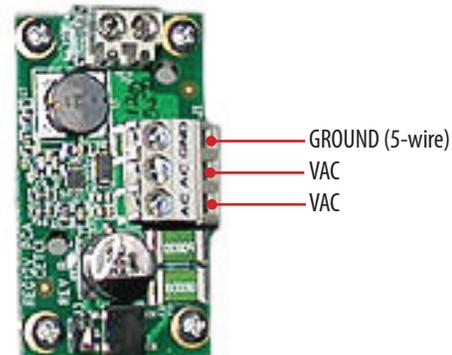
The last configuration is the PET solid state version which accepts a 4 - 20 mA analog signal from a remote device and converts it to BACnet®. The remote device can be any analog transmitter for any gas with a 4 - 20 mA output. It can be installed beside the PET or a considerable distance from the PET. Wiring consists of 3-conductor, shielded wire or cable between the remote analog transmitter and the PET. The wiring from the analog device enters the same junction box that the PET is mounted on through an unused knockout. Wiring connection is at the rear of the PET as it is with the BACnet® wiring.

### VDC Supply:



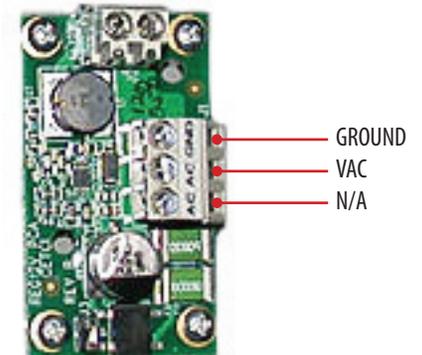
Jumper "J3" - Not installed

### Full Wave VAC Supply:



Jumper "J3" - Installed

### Ground Referenced VAC Supply:



Jumper "J3" - Not installed

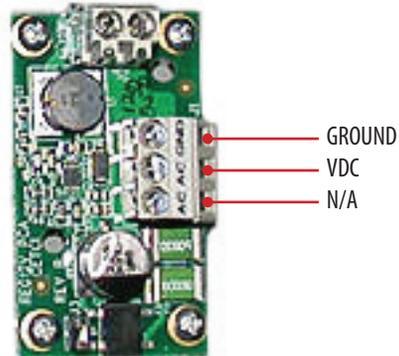
The installer should provide 4 or 5-conductor, shielded wire or cable suitable for use in a RS485 network wiring system. Wiring must be "daisy-chain" network style wiring with four wires in and four wires out to the next device.

The PET series BACnet® transmitter is a low voltage powered device. Any application of operating voltages higher than indicated in the specification may result in damage. Double check wiring connections prior to powering the transmitter. Damage from incorrect wiring connections or from too much voltage applied are not covered under warranty.

The PET solid-state version is capable of working with a remote solid state sensor as an alternative to an integral sensor. This is useful for applications such as heavier-than-air gases such as propane. PET can be installed at 4 - 6 ft from the floor then the installer drops a short length of conduit and wire to a second junction box mounted at 6" from the floor with the remote sensor installed in the bottom.

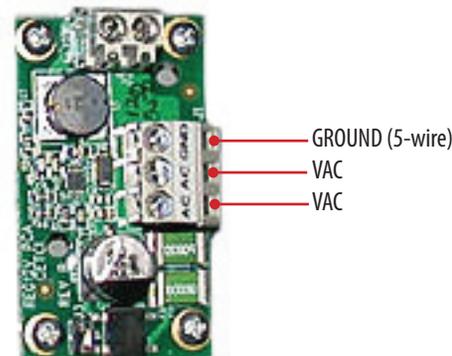
The last configuration is the PET solid state version which accepts a 4 - 20 mA analog signal from a remote device and converts it to BACnet®. The remote device can be any analog transmitter for any gas with a 4 - 20 mA output. It can be installed beside the PET or a considerable distance from the PET. Wiring consists of 3-conductor, shielded wire or cable between the remote analog transmitter and the PET. The wiring from the analog device enters the same junction box that the PET is mounted on through an unused knockout. Wiring connection is at the rear of the PET as it is with the BACnet® wiring.

### VDC Supply:



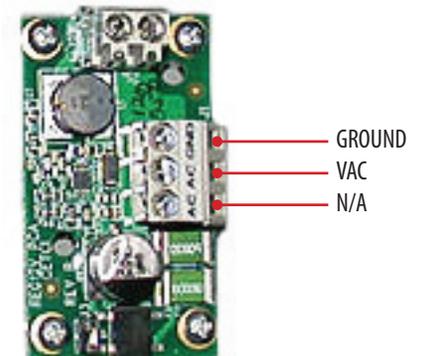
Jumper "J3" - Not installed

### Full Wave VAC Supply:



Jumper "J3" - Installed

### Ground Referenced VAC Supply:



Jumper "J3" - Not installed