

# PressuRITE™

[PressuRITE™ PR-204/205]

Shown with SUT (Set-Up-Tool)

Saving the Planet  
While Increasing  
Your Bottom Line



Measures & Controls “In- Situ” pressure (refrigerant) for air conditioning and refrigeration compressor Low Pressure, High Pressure and Oil Pressure functions

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## Product Safety Information

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This data sheet contains information related to the use and performance of the product "PR-204/205 controller". Each person who carries out work on this product must have read and understood this data sheet. If you have any questions that are not resolved by this data sheet, you can obtain further information from the supplier or manufacturer.

If the product is not used in accordance with this data sheet, the protection provided will be impaired.

Applicable regulations must be observed when installing and using the device. Within the EU, these include regulations regarding occupational safety and accident prevention as well as those from the VDE (Association for Electrical, Electronic & Information Technologies). If the device is used in other countries, it is the responsibility of the system installer or operator to comply with local regulations.

Mounting, installation and commissioning work on the devices may only be carried out by qualified technicians. Qualified technicians are persons who are familiar with the described product and who can assess given tasks and recognize possible dangers due to technical training, knowledge and experience as well as knowledge of the appropriate regulations.

Legend



Indicates a hazard of medium risk which can result in death or severe bodily injury if not avoided.



Indicates a hazard of low risk which can result in minor or medium bodily injury if not avoided.



Indicates a hazard of medium risk which can result in material damage or malfunctions if not avoided.



For disposal, the product is considered waste from electrical/electronic equipment (electronic waste) and must not be disposed of as household waste. Special treatment for specific components may be legally binding. All/Any local disposal regulations should observed and followed.

Product Description

**PressuRITE™** is a digital refrigerant pressure controller used to operate commercial refrigeration compressor/condenser equipment, large commercial air conditioning equipment, condenser head pressure (via fan cycling operation) AND water-cooled condenser heat pump loop control (to eliminate nuisance pressure trips, compressor failures and mechanical labor-intensive re-set problems.

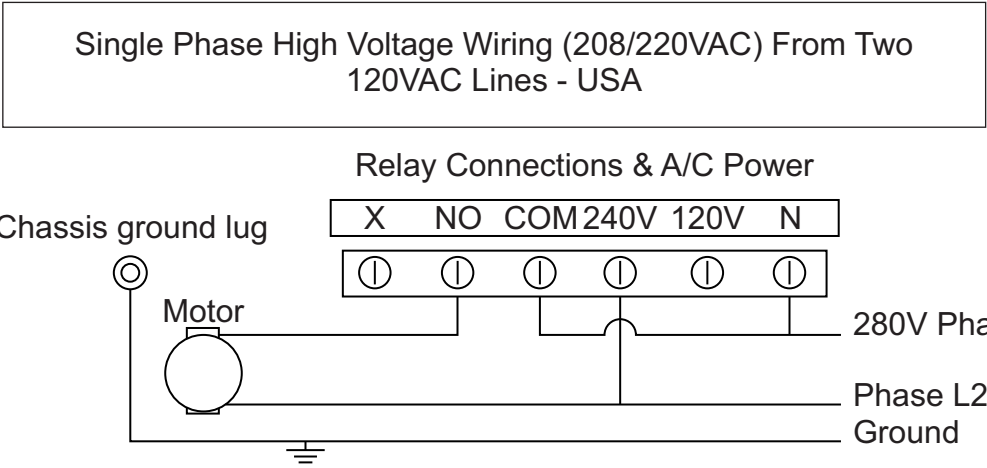
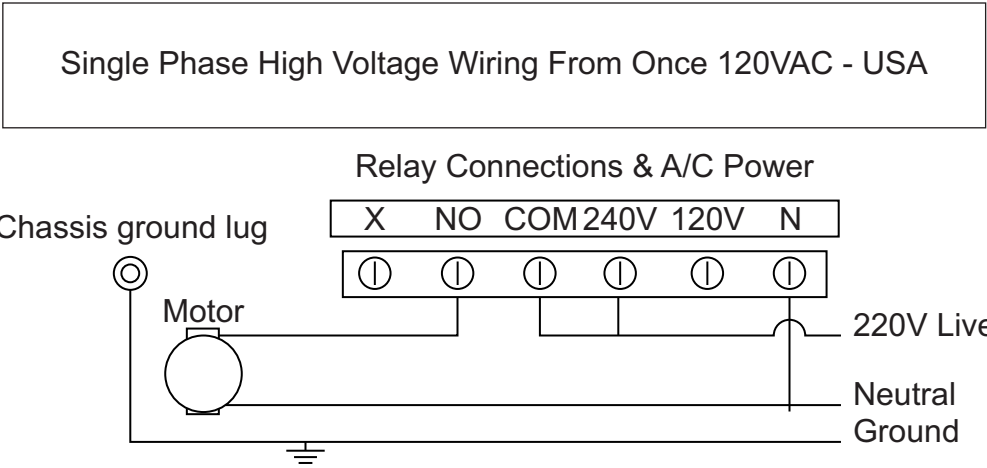
**PressuRITE™** uses its “digital based” electronics to read the signal from an electronic pressure sensor (part of this product)... a transducer... that is attached to a commercial/industrial refrigeration unit's compressor system (at either its High Pressure, Low Pressure or Oil Pressure piping connections) to sense internal system operating pressures which in turn, are translated by its micro-processor. PressuRITE™ will then turn the unit “on” or “off” based on user-defined set-points and limits to very accurately control the unit's compressor or condenser fan.

<b>PressuRITE™ is available in 3 Basic Models:</b>	<b>PR-204</b>	Low Pressure High Pressure Oil Differential Pressure Or as a Separate Condenser Fan Cycle Unit
	<b>PR-204A</b>	Hi-Resolution (+/- 0.10 psi @ 0-15 psi range) Low Pressure High Pressure
	<b>PR-205</b>	Low Pressure High Pressure Oil Differential Pressure Separate Condenser Fan Cycle Control OR... All Above Functions <i>Simultaneously</i>

## Technical Data

Purpose	Measures & Controls “In- Situ” pressure (refrigerant) for air conditioning and refrigeration compressor Low Pressure, High Pressure and Oil Pressure functions
Supply Voltage	115VAC [Single Phase – Neutral] OR 230VAC [Single Phase 2-Wire] (Nominal)
Outputs	SPDT 25 Amp Rated 115VAC/230VAC [Form C Contacts NO/NC]
Connections	High Voltage Terminal Strip: 18 ga to 12 ga Stranded or Solid Wire Transducer/Terminal Strip 18 ga Stranded Wire
Power Consumption	5 Watts
Measured range	0 to 667 psi gauge
Interfaces	SUT (Hand-held Set-Up-Tool); RS485
Enclosure	Polycarbonate/PVC UV Resistant Blend to UL Standard - Black
Operating Temperature	-20 Deg. F to +145 Deg. F
Humidity	80% Non-Condensing
Accuracy	1% of Range
Weight	18.3 Oz
Dimensions	WxHxD = 5.0” x 4.125” x 2.125”

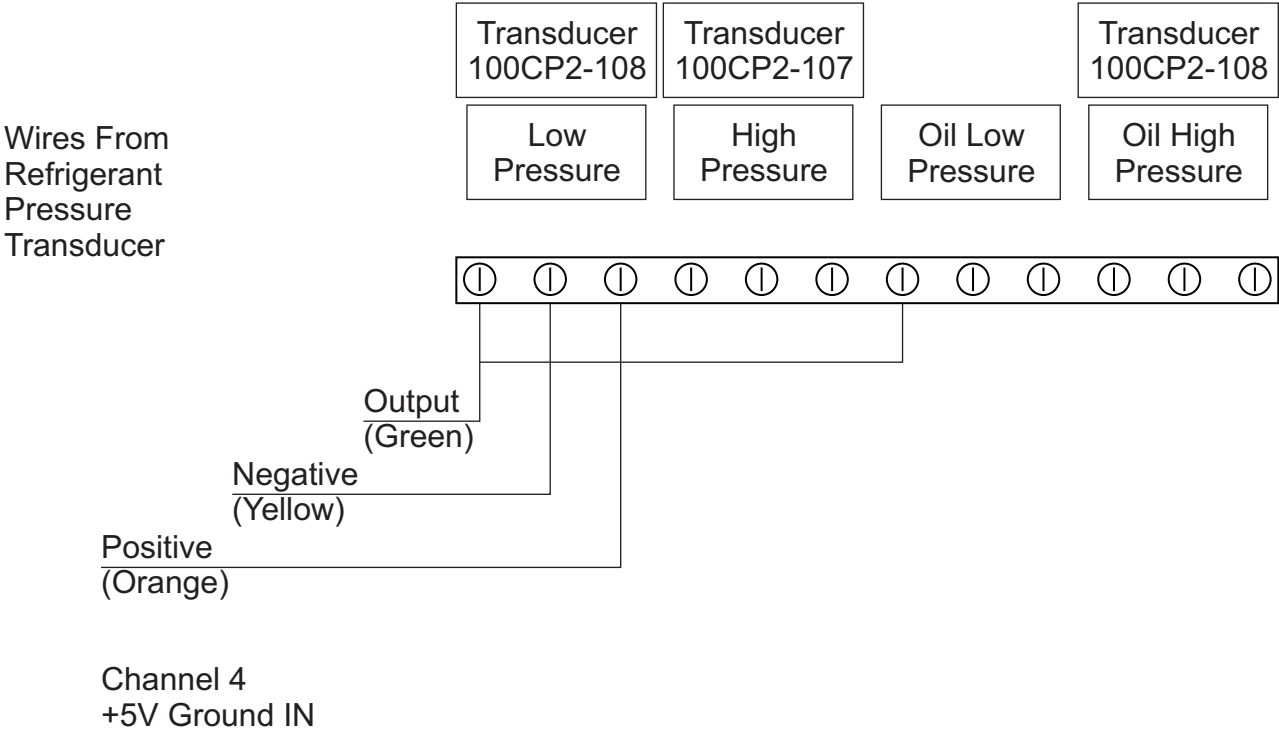
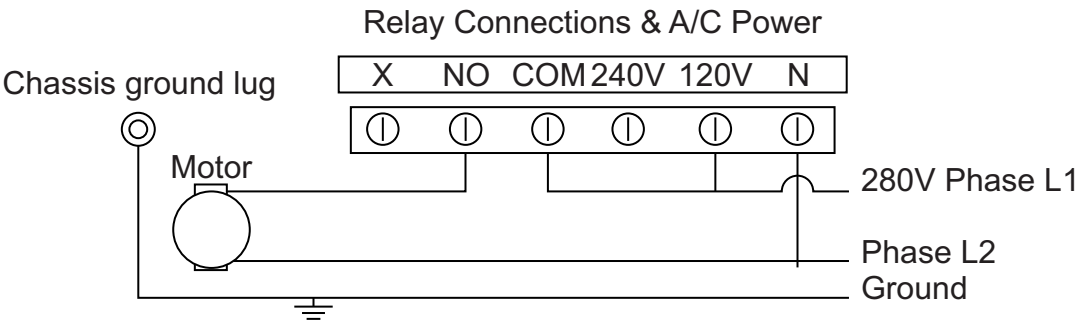
Wiring/Connections Diagram(s)



Wiring/Connections Diagram(s)  
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Wiring/Connections Diagram(s)

Single Phase High Voltage Wiring (220VAC) Europe & Asia



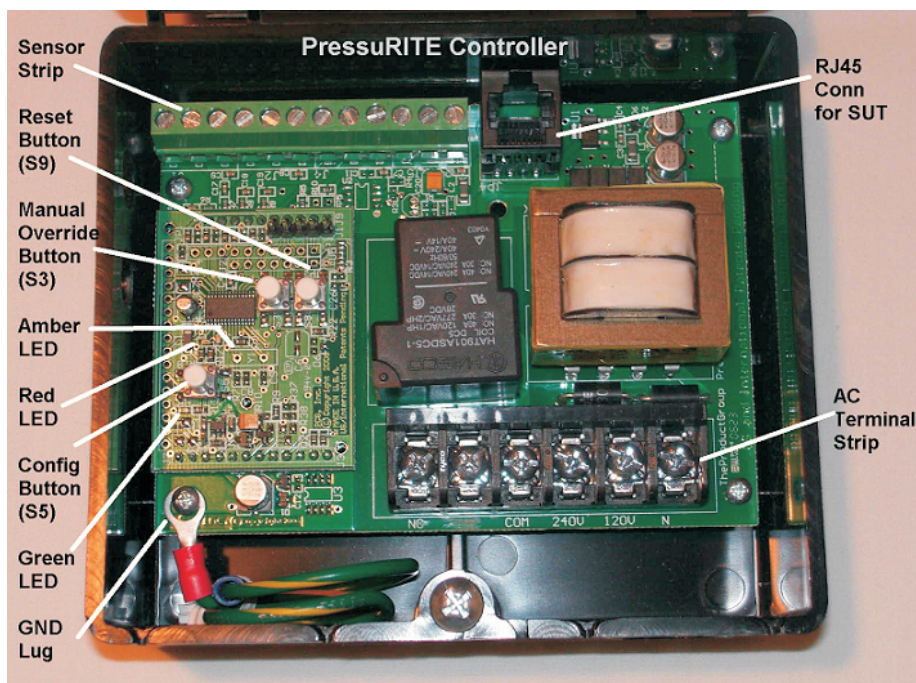


## Mounting/Installation

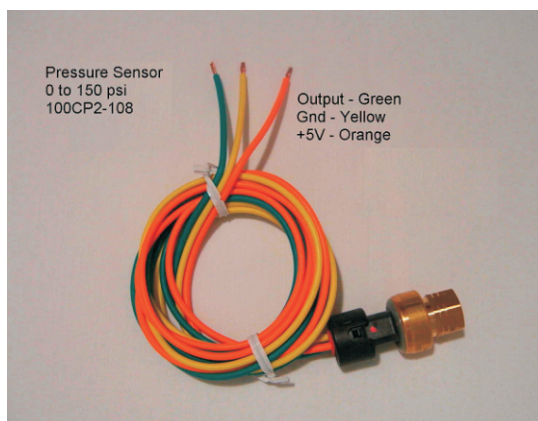
**PressuRITE™** is set in place either at/on the compressor body itself or remotely located within a control cabinet that is affixed to the equipment that contains the compressor.

The **PressuRITE™** housing has two threaded (10/32") female mounting holes inset in the back of it that will allow surface mounting onto a bracket or directly into a control panel. The female threaded holes are centered 1.0" apart.

## Product Interface Layout



PressuRITE™ Controller  
Component Lay-Out



Transducer Description/Lay-Out  
(Typical)

[Sensor wires are 3 mtr. In length. They may be extended up to 30 ft. if 18 gauge stranded wire type is maintained.]

