PRESSURA™ MODEL RPC30-PT ROOM PRESSURE CONTROLLER

Description

The Model RPC30-PT PRESSURA™ Room Pressure Controller is designed to measure and control the pressure differential in hospital rooms using a pressure transducer. It features audible and visual alarms to warn of potential loss of containment and alarm delays with a door switch to avoid nuisance alarms. No Isolation Mode disables the alarms when the room is unoccupied.

Features

- Meets CDC requiring visual room pressure alarm
- Stand-alone room pressure controller verifies system operation
- Audible and visual alarms warn staff of unsafe conditions
- No Isolation Mode disables alarms when room is used for non-infectious patients or is unoccupied
- Passwords prevent unauthorized access to menu functions

Rooms Monitored and Controlled

Max # of Rooms Monitored	1
Max # of Rooms Controlled	1

Selection Chart

	RPC30-PT	RPC30-PT-LON
Works with Pressure Transducer or TSI's High-Accuracy Through-The-Wall Sensor	•	•
Visual and Audible Alarms with Delays	•	•
Positive, Negative, and No Isolation Modes	•	•
Configurable Inputs and Outputs	•	•
BACnet® MS/TP Communications	•	
LonWorks® Communications		•
Modbus® Communications	•	
Compatible with TSI Nurse's Station Monitor	•	•

Items Included

- Digital interface module
- (2) Pressure Transducer Pickup Ports

Configurable Inputs

- 2nd Room Pressure Sensor or Temperature Setpoint
- Supply flow
- Door switch or Occupancy Sensor
- Keyswitch or Relative Humidity Sensor
- Door Switch or Room Temperature Sensor
- Keyswitch, Exhaust Flow or Supply Air Temperature Sensor

Configurable Outputs

- Exhaust Control Output
- Supply Control or Room Pressure Analog Output
- Temperature Control, Room Pressure, Supply Flow or Exhaust Flow Analog Output
- Low Alarm Relay Output
- High Alarm or Room Mode Relay Output

Hardware Options

- Nurse's Station Remote Interface
- Remote audible alarm or audible/visual alarm
- Positive/negative/no isolation key switch
- Dampers or Venturi Valves
- Flow Stations

Main Screen Displayable Readings*

- Room Pressure
- Supply Flow
- Exhaust Flow
- Air Change Rate
- Temperature
- Supply Air Temperature
- Relative Humidity
- Occupancy
- Door Open Status
- Room Mode

* Inputs must be wired to PresSura controller and configured

Power Requirements

Digital Interface Module (DIM) Each	24VAC, 50/60 Hz, 3VA

Digital Interface Module Specifications

Display Range	Matches Pressure Transducer Range
Display Resolution	5% of reading 0.001 in. H_2O
Low Alarm Range	Matches Pressure Transducer Range
High Alarm Range	Matches Pressure Transducer Range
Touchscreen Display	4.3 inch (10.9 cm) diagonal 16:9 aspect ratio, QVGA
Communications	Modbus® BACnet® MS/TP LONworks® (Optional)
Dimensions	7 inch x 4.875 inch x 1.75 inch (17.8 cm x 12.4 cm x 4.4 cm) 0.625 inch (1.6 cm) protrusion
Operating Temperature	32 to 120°F (0 to 50°C)
Weight	14 oz (0.40 kg)

Specifications subject to change without notice.

Inputs

	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7
TSI Sensor	0 to 10 VDC[1]	0 to 10 VDC[2]					
Pressure Transducer	0 to 10 VDC[1]	0 to 10 VDC[2]					
Temperature Setpoint		0 to 10 VDC[1]					
Supply Flow			0 to 10 VDC[1]				
Door Switch				Open / Closed[1]		Open / Closed[2]	
Occupancy Sensor				Open / Closed[1]		Open / Closed[2]	
Keyswitch					Open / Closed[1]		Open / Closed[2]
Relative Humidity					0 to 10 VDC[1]		
Temperature						1000 Ω Platinum RTD[1]	
Exhaust Flow							0 to 10 VDC[2]
Supply Air Temperature							1000 Ω Platinum RTD

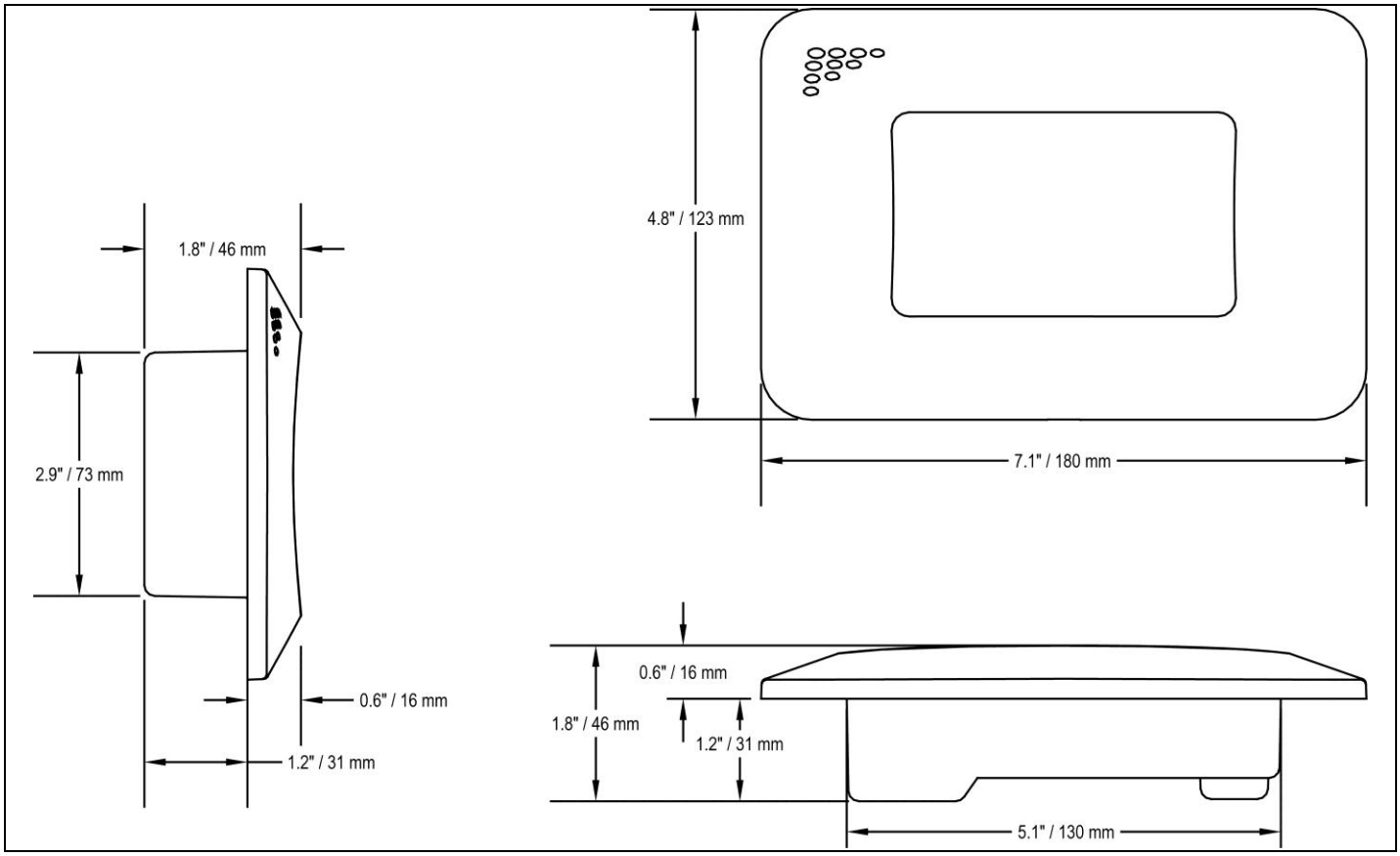
[1] Room 1
[2] Anteroom

Outputs

	Analog Output 1	Analog Output 2	Analog Output 3	Digital Output 1*	Digital Output 2*
Current Room Pressure		0 to 10 VDC / 4 to 20 mA	0 to 10 VDC / 4 to 20 mA		
Current Supply Flow			0 to 10 VDC / 4 to 20 mA		
Current Exhaust Flow		0 to 10 VDC / 4 to 20 mA	0 to 10 VDC / 4 to 20 mA		
Exhaust Control	0 to 10 VDC				
Supply Control		0 to 10 VDC / 4 to 20 mA			
Temperature Control			0 to 10 VDC / 4 to 20 mA		
Low Alarm Status				Open / Closed	
High Alarm Status					Open / Closed
Room Mode					Open / Closed

*Digital Outputs close to indicate loss of power.

Dimensions



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TSI Incorporated – Visit our website **www.tsi.com** for more information.

USA	**Tel:** +1 800 874 2811	**India**	**Tel:** +91 80 67877200
UK	**Tel:** +44 149 4 459200	**China**	**Tel:** +86 10 8219 7688
France	**Tel:** +33 1 41 19 21 99	**Singapore**	**Tel:** +65 6595 6388
Germany	**Tel:** +49 241 523030		

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