



Manual Supplement

Model Number: 8635-M-N2

Product/System Title: Room Pressure Monitor with N2
Communications Protocol

Contents of this manual supplement include:

- 1) Variable map
- 2) Description of variables
- 3) Wiring Diagram

N2 communications are installed on the Model 8635-M-N2 room pressure monitors. This document provides the technical information needed for the host DDC system to communicate with 8635-M units. This document assumes the programmer is familiar with the N2 protocol. Further technical assistance is available from TSI if your question is related to TSI interfacing to a DDC system. If you need further information regarding N2 programming in general, please contact Johnson Controls.

Project:
Date:
Page 1 of 5 Released 12/10/98



Manual Supplement

Variable Map

NPT	NPA	UNITS ¹	DESCRIPTION
AI	1	ft/min, m/s, in. H ₂ O, Pa, mm H ₂ O	Room Pressure Value
AI	2	CFM, l/s	Flow Rate
AI	3	#	ACPH
BI	1		Low Room Pressure Alarm 0=Normal 1=Low Alarm
BI	2		High Room Pressure Alarm 0=Normal 1=High Alarm
BI	3		Min. Flow Alarm 0=Normal 1=Low Flow Alarm
BI	4		Room Mode 0=Normal 1=Remote
BI	5		Data Error 0=Normal 1=Data Error
AO	1	ft/min, m/s, in. H ₂ O, Pa, mm H ₂ O	Low Alarm Setpoint
AO	2	ft/min, m/s, in. H ₂ O, Pa, mm H ₂ O	High Alarm Setpoint
AO	3	ft/min, m/s, in. H ₂ O, Pa, mm H ₂ O	Remote Low Alarm Setpoint
AO	4	ft/min, m/s, in. H ₂ O, Pa, mm H ₂ O	Remote High Alarm Setpoint
AO	5	CFM, l/s	Min. Flow Alarm Setpoint
AO	6	#	Units 0=Feet per minute 1=Meters per second 2=Inches of H ₂ O 3=Pascals 4=millimeters of H ₂ O

¹ Units will correspond with choice in UNITS variable (AO #9). Flow rates will either be CFM or l/s, based on whether UNITS variable is set for an english or metric unit type.



Manual Supplement

Description of Variables

NPT - Network Point Type

Variables are defined as analog inputs, binary inputs, and analog outputs. Analog inputs are current control parameters and items that the controller is measuring. Binary inputs represent controller states. Analog outputs are the programmable setpoints for the isolation room pressure controller and monitor. These setpoints can be changed through the keypad or by overriding the current setpoint.

NPA - Network Point Address

Address of the desired point.

Change of Status (COS) - Room Pressure Analog Input

The 8635-M has the ability to change alarm setpoints locally. For example the low alarm setpoint could go from -0.002 “H₂O to +0.001 “H₂O. If the COS alarm setpoints are not changed to accommodate you could get low alarm or low warning messages when the unit is working correctly. If these alarm points are set outside of the negative and positive setpoint values, incorrect alarm messages can be prevented.

Override Analog Input Command

Analog Input values can be set using the override command. These values will be reset to the correct items when the Override is released. There is not a time-out on the override command.

Override Binary Input Command

Overriding a 1 to Room Mode binary inputs enables Remote mode. To release the controller from the remote state, override a 0 to the Room Mode input. Releasing the override will return the controller to the Normal state.

The alarm and data error variables can be overridden, but this will not affect the controller.

Overriding the low alarm variable will result in a change of status, but will not put the controller into low alarm mode. The local alarm modes can only be controlled locally. Only override these variables for diagnostic purposes, and release them for normal operation.

Binary Input Data Error

Data Error binary inputs are used to indicate if something has gone wrong with the controller. Data Error indicates when some of the data stored on the device has been corrupted. The calibration and setpoint values should be checked on the controller.

Project:
Date:
Page 3 of 5 Released 12/10/98

