

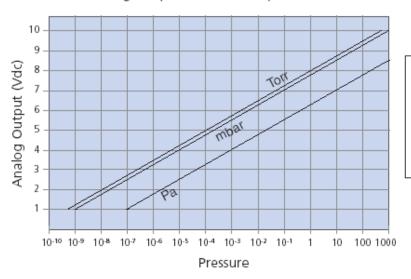
GRANVILLE-PHILLIPS®

Micro-Ion® ATM Module Catalog Number 390412-#-##-#

Introduction

The Micro-Ion ATM module, catalog number 390412-#-## $^{+}$ provides a 1 to 10 volt analog output signal proportional to a pressure range of 1×10^{-9} mbar to 1,000 mbar. This output signal is equivalent to 0.75 Vdc per decade of pressure.

Analog Output Chart and Equations



Determine pressure based on voltage signal:

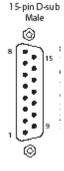
Pressure (Torr) = $10^{(((volts-7.75)/0.75)-0.125)}$

Pressure (mbar) = $10^{((volts-7.75)/0.75)}$

Pressure (Pa) = $10^{(((volts-7.75)/0.75)+2)}$

User Interface I/O Connector

The Micro-lon ATM module is provided with a male D-sub 15-pin Customer I/O connector.



8 24 VDC power input (+)

7 Degas ON/OFF

Degas UN/OFF

6 Calibration

5 24 VDC power ground (-)4 Relay 1 normally open

3 Micro-Ion gauge OFF

2 0.75 volt/decade analog output

1 Relay 1 common

15 Shield

14 RS-485 - (A)

13 RS-485 + (B)

12 Analog output signal common

11 Relay 2 normally open

10 Gauge Identification

9 Relay 2 common



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Part Number 390007

Addendum

Revision B

Page 1 of 1

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