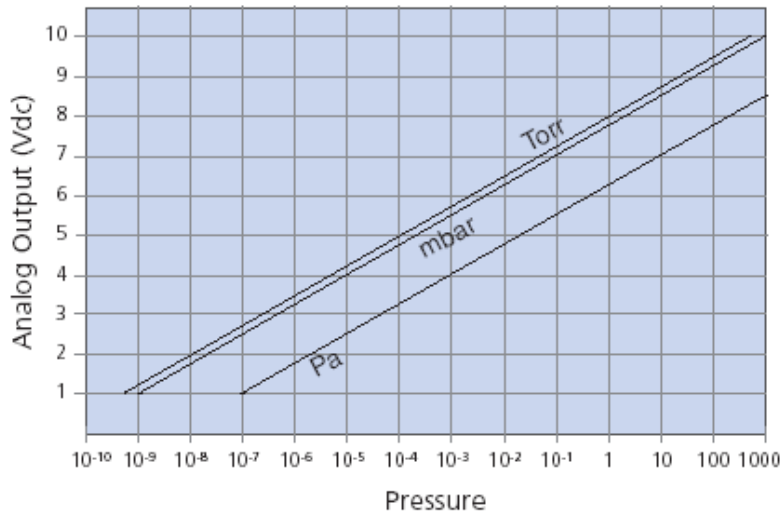


## Micro-Ion® ATM Module Catalog Number 390412-#-##-#

### Introduction

The Micro-Ion ATM module, catalog number 390412-#-##-# provides a 1 to 10 volt analog output signal proportional to a pressure range of  $1 \times 10^{-9}$  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:

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

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

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

### User Interface I/O Connector

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

15-pin D-sub Male



- 8 24 VDC power input (+)
- 7 Degas ON/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