

# Quickstart Guide

## GASMAX II Gas Monitor



### INSTALLATION

**IMPORTANT - Before installing the GASMAX II, make sure there are no toxic or combustible gases are present. Declassify the area if necessary.**

Factors such as air movement by fans, prevailing winds, convection, gas density, emission sources and environmental variables should be taken into account when determining sensor location. As with all sensors, the GASMAX II should be protected from falling or directed water, shock, vibration and dirt.

Use conduit and installation practices approved for the appropriate area classification. When installed correctly, the GASMAX II is certified for use in areas rated Class 1, Div 1, Groups B, C & D.

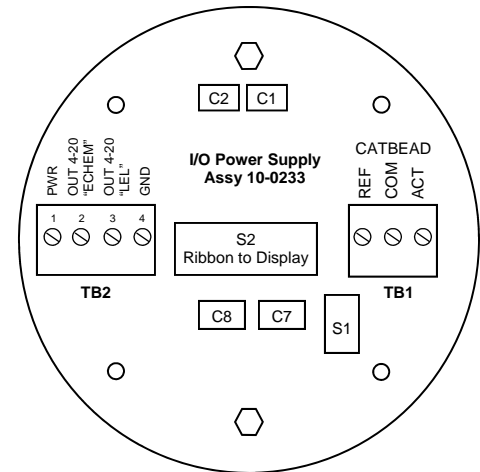


Fig 1. GASMAX Power Supply Board

### POWER & 4-20mA WIRING

Locate the GASMAX power supply board. The board is attached to the inside of the GASMAX explosion-proof housing (see Figure 1).

Connect the +DC power wire to TB2 pin 1. Connect the –DC power to TB2 pin 4. The allowable DC voltage range is 12 to 30 VDC.

The GASMAX calibrated 4-20mA output signal is available at TB2 pin 3. (If an optional electrochemical sensor is also connected to the GASMAX Echem input, the Echem sensor 4-20mA output is available on TB2 pin 2).

(SEE WIRING DIAGRAM ON BACK)

### RS-485 DIGITAL WIRING

Locate the GASMAX II alarm / MODBUS board. The board is attached to the back of the GASMAX II removable electronics assembly.

Attach the two RS-485 signal cables to TB2 pins 1 & 2. Attach the signal shield wire to TB2 pin 3. **NOTE:** RS-485 is polarity-sensitive and the wires on pins 1 & 2 may need to be swapped for proper operation. If wiring in a “daisy chain”, terminals 4 & 5 are available for outgoing RS-485 wiring.

If necessary, select Jumper 1 (J1) position “A” to enable the RS-485 termination resistor. This is typically done on the device furthest from the RS-485 master controller.

(SEE WIRING DIAGRAM ON BACK)

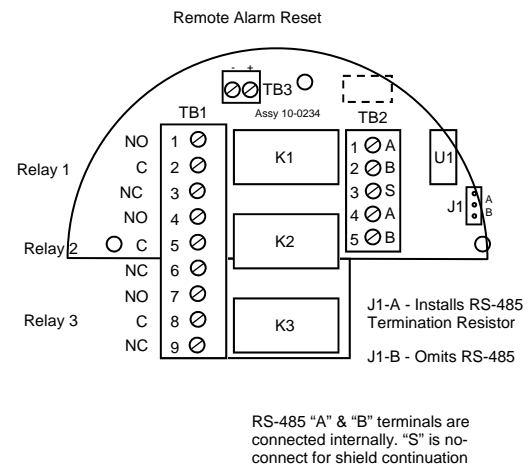
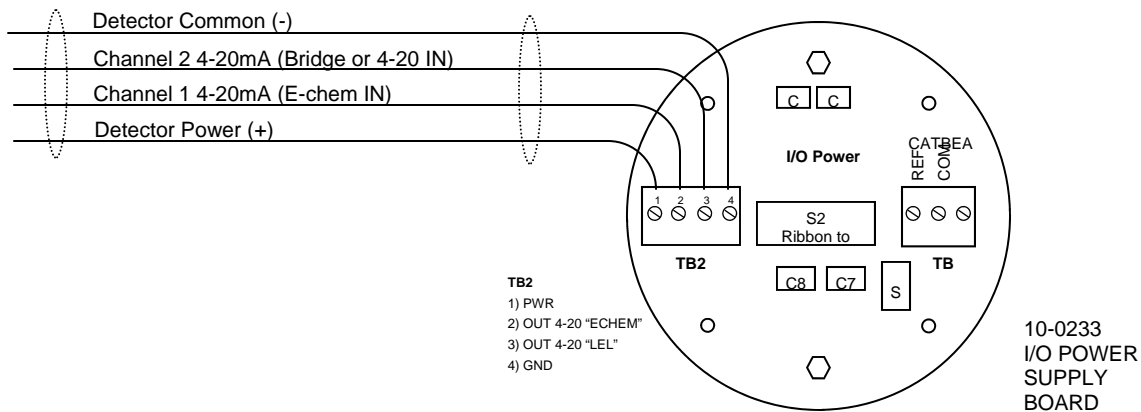
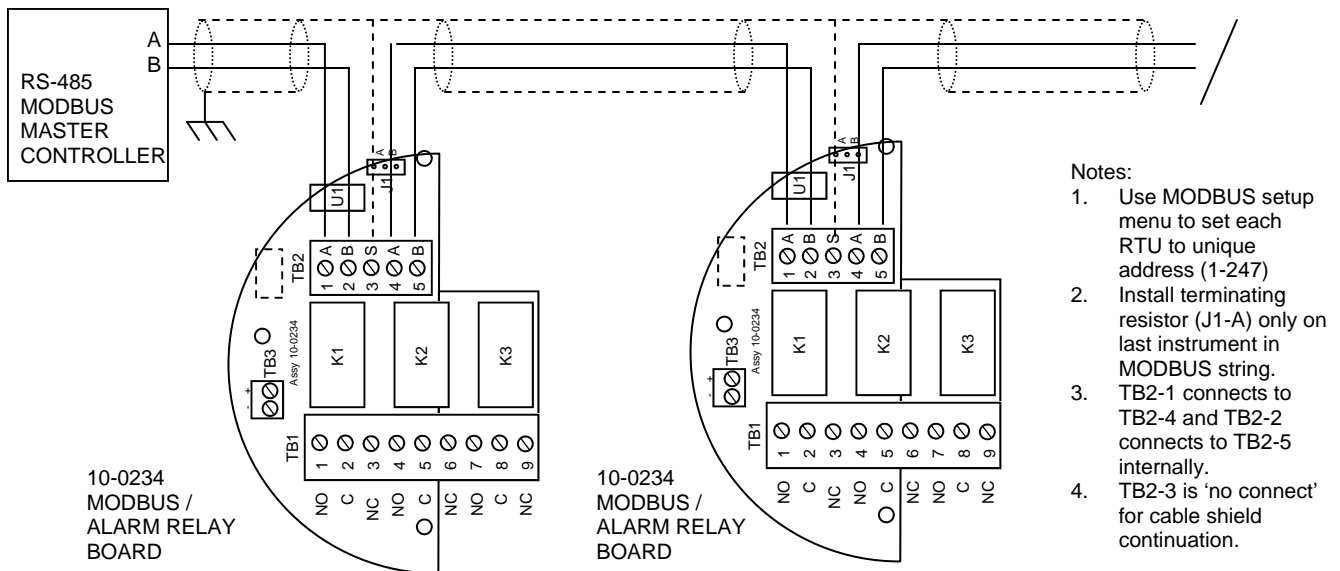


Fig 2. GASMAX Alarm / MODBUS Board

## GASMAX II 4-20mA WIRING DIAGRAM



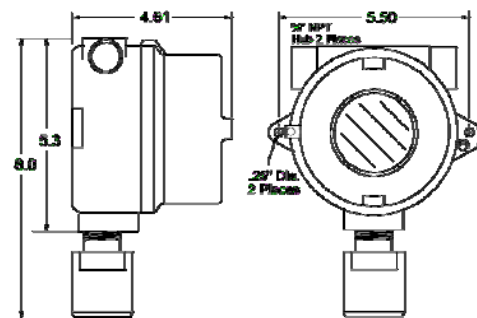
## GASMAX II MODBUS® INTERFACE WIRING DIAGRAM



## SPARE PARTS & ACCESSORIES

10-0198	Sensor splash guard
10-0203	Sensor calibration cup
10-0205	Flow cell for process monitoring
10-0187	Sensor removal tool
1000-0078	Large black magnet
10-0232	Replacement display assy
10-0233	Replacement I/O power supply board
10-0234	Replacement Alarm / MODBUS interface
10-0250	Replacement isolated 4-20mA output

ALL DIMENSIONS IN INCHES



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