Quickstart Guide

GASMAX II Gas Monitor with
Remote Electrochemical (Toxic) Sensor

GDS Corp
Gas and Flame Detection

INSTALLATION

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

Air movement by fans, wind, gas density,
convection, emission sources and environmental
variables should be taken into account when
determining location. As with all sensors, the
GASMAX II should be protected from falling or
directed water, snow, shock, vibration and dirt.

Use installation practices approved for the
appropriate area classification. When installed with
#10-0247 Stainless Steel sensor head, the
GASMAX II is certified for use in areas rated Class
1, Div 1, Groups B, C & D.

WIRING

Remove the GASMAX II display assembly by
unscrewing the explosion-proof cover, loosening
the two thumbscrews and removing the electronics
assembly. The display board is located on the
back of the display assembly.

Connect the GASMAX and remote sensor as shown
using the 25ft shielded cable supplied with the unit.
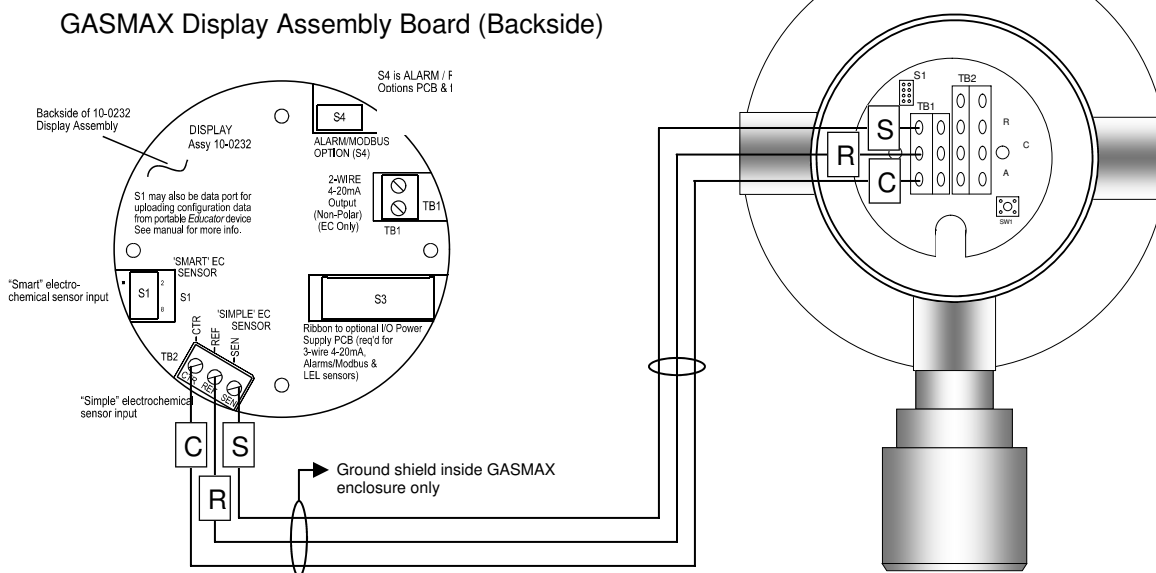NOTE: Do not substitute cable or add additional cable
beyond 25 ft.

Re-attach the display assembly to the enclosure and
replace the explosion proof cover.

CALIBRATION

Apply power and allow the instrument to warm up for a
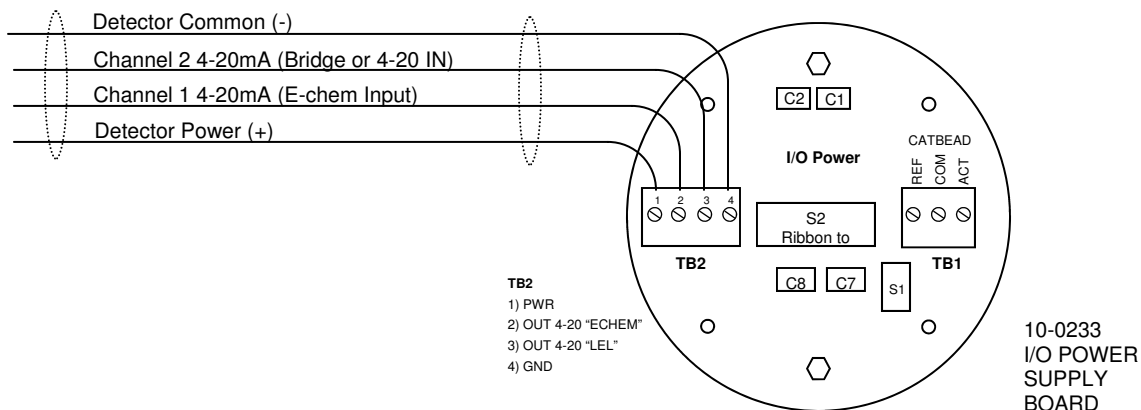minimum of three (3) hours.

Hold the magnetic wand next to the CAL button (lower
left side of display) until the screen indicates CAL? Then
hold the wand over the EDIT button to confirm
calibration mode.

Follow the on-screen instructions to calibrate the unit.
When calibration is complete, the GASMAX II will
indicate CAL DELAY and then resume normal operation.
For more information, please read the GASMAX Users
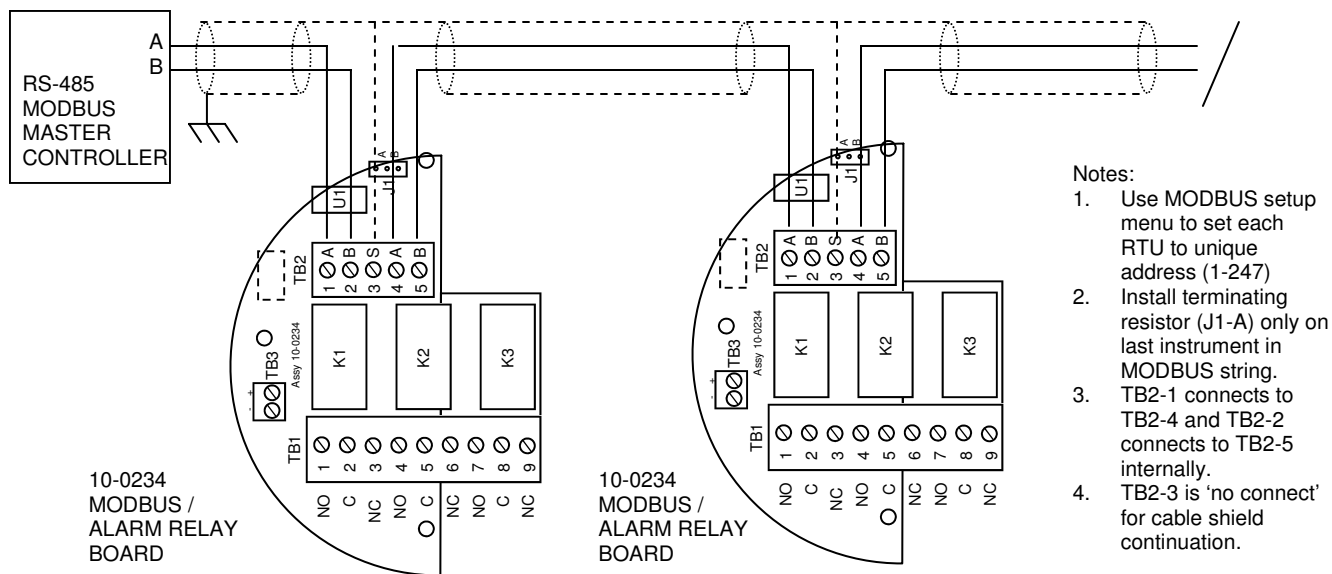Manual supplied with the unit.

Remote Toxic Sensor Assembly

GASMAX Display Assembly Board (Backside)

AUTHORIZED DISTRIBUTOR - GasDetectorsUSA.com - Houston, Texas USA

GASMAX II 4-20mA WIRING DIAGRAM

Detector Common (-)
Channel 2 4-20mA (Bridge or 4-20 IN)
Channel 1 4-20mA (E-chem Input)
Detector Power (+)

C2 C1

CATBEAD

I/O Power

REF COM ACT

1 2 3 4
TB2

S2
Ribbon to

TB1

C8 C7 S1

TB2
1) PWR
2) OUT 4-20 "ECHEM"
3) OUT 4-20 "LEL"
4) GND

10-0233
I/O POWER
SUPPLY
BOARD

GASMAX II MODBUS® INTERFACE WIRING DIAGRAM

A
B

RS-485
MODBUS
MASTER
CONTROLLER

U1

TB2
1 A 2 B 3 S 4 A 5 B

TB3

Assy 10-0234

K1 K2 K3

TB1
1 2 3 4 5 6 7 8 9

NO C NC NO C NC NO C NC

10-0234
MODBUS /
ALARM RELAY
BOARD

U1

TB2
1 A 2 B 3 S 4 A 5 B

TB3

Assy 10-0234

K1 K2 K3

TB1
1 2 3 4 5 6 7 8 9

NO C NC NO C NC NO C NC

10-0234
MODBUS /
ALARM RELAY
BOARD

Notes:
1. Use MODBUS setup menu to set each RTU to unique address (1-247)
2. Install terminating resistor (J1-A) only on last instrument in MODBUS string.
3. TB2-1 connects to TB2-4 and TB2-2 connects to TB2-5 internally.
4. TB2-3 is 'no connect' for cable shield continuation.

GASMAX II ISOLATED 4-20mA WIRING DIAGRAM

U8

Assy 10-0250
Isolated 4-20mA Output

TB1

4
3 +
2 -
1 +

Isolated 4-20mA output for E-chem Input (Ch 1)

Isolated 4-20mA output for Bridge or 4-20mA Input (Ch2)