

# Contegra

1286 Carriage Hills Dr.  
Eagan, MN 55123  
651 905 0900 Phone  
651 454 4665 FAX

Complete specifications at:  
[www.contegra.com](http://www.contegra.com)

Assembly:  
60000-0002-02

1	+VDC	Main Power	12 - 24 VDC 15 Watts
2	Common	Chassis GND	
3	Positive +	Battery, 12 VDC Sealed Lead-Acid Battery	
4	Common	To expansion Input/Output Modules	
5	Common	RS-485	
6	Common	Reserved	
7	Common	Reserved	
8	FET Output -	Reserved	

## Station Master 2000™

Automatic Duplex Pump Controller

Patent Pending

Battery charging requires minimum 15VDC Main Power

TRIAC Outputs  
24 - 120 VAC  
Individually Fused  
5 X 20 mm  
Fast-Acting

WARNING:  
Disconnect power before removing cover.

Open-Collector Darlington Outputs  
50mADC,  
24 VDC Max.  
Isolated DC Inputs  
Energize to Activate  
24 VDC Max.

Analog Input Select  
(\*5V = Default)  
Move jumper to change.

Isolated Analog Input  
Selectable: VDC/mADC

Patent Pending  
Label 10038-0001-03

Pump 1  
Pump 2  
High Alarm Output  
Low Alarm Output

9  
10  
11  
12  
13  
14  
15  
16

Pump 1 Pilot Circuit  
Pump 2 Pilot Circuit  
High Alarm Output  
Low Alarm Output

TRIAC Outputs  
24 - 120 VAC  
Individually Fused  
To pump pilot circuits or alarm circuitry.  
(Discrete alarm outputs require that SW4 be placed in the Up/On position.)

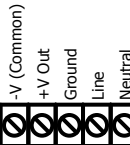
Signal Under/Over Range & Power Failure (Monitor Output) (Note 3)

Common Alarm Output (Resets on ACK) (Note 3)

Refer to the connection diagrams (shown below) for correct connection to the SM2K-2's isolated analog input section.

Optional

Switching Power Supply  
120 VAC Input/  
12 VDC Output



### SLX 130-M/MIS connections to the Station Master 2000 Version -0002

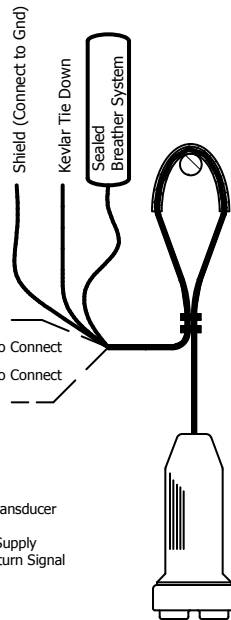
For a mADC input, ensure that the jumper is in the upper/4-20 mADC position

Analog Input 22  
Analog Common 23  
+5 VDC Exctn 24  
+24 VDC (nom.) Loop Supply 25



Submersible Level Transducer

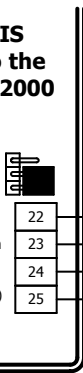
R = +24 VDC Loop Supply  
Bk = 4-20 mADC Return Signal  
W = No Connection



### SLX 130-E/EIS connections to the Station Master 2000 Version -0002

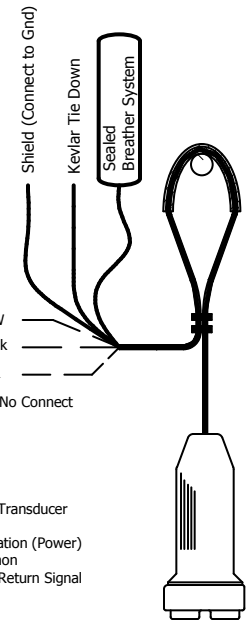
For a VDC input, ensure that the jumper is in the lower/VDC position

Analog Input 22  
Analog Common 23  
+5 VDC Exctn 24  
+24 VDC (nom.) Loop Supply 25



Submersible Level Transducer

R = +5 VDC Excitation (Power)  
Bk = Supply Common  
W = 0.5-4.5 VDC Return Signal



# Contegra

12865 Carriage Hills Drive  
Eagan, MN 55123

651 905-0900 Phone  
651 454-4665 FAX

Copyright 2001 Contegra  
[www.contegra.com](http://www.contegra.com)

03	10/20/03	Added Page 3 - ISB-E1 (7160ac)
02	8/25/03	Added Page 3 - ISB1 (7187+)
01	5/8/03	Released
Rv	Date	Description

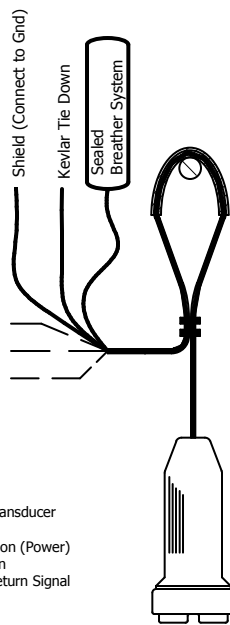
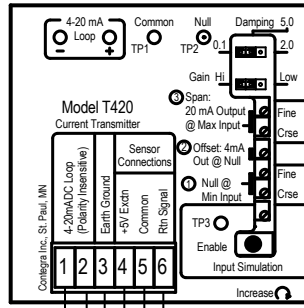
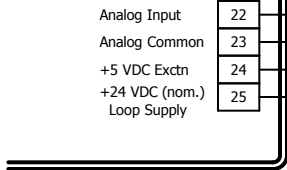
Description: Station Master 2000-2 Controller Connection Diagram

Designed: MCS  
Date: 5/8/03

Drawing #: 10185-0001-03 Page 1 of 3

**SLX 220 connections to the Station Master 2000**  
Version -0002

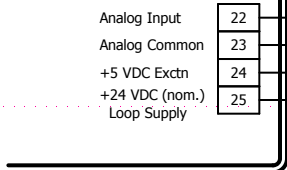
For a mADC input, ensure that the jumper is in the upper/4-20 mADC position



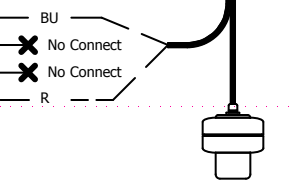
Submersible Level Transducer  
R = +5 VDC Excitation (Power)  
Bk = Supply Common  
W = 0.5-4.5 VDC Return Signal

**Ultrix 100 connections to the Station Master 2000**  
Version -0002

For a mADC input, ensure that the jumper is in the upper/4-20 mADC position



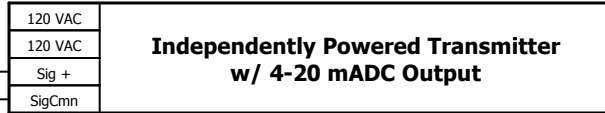
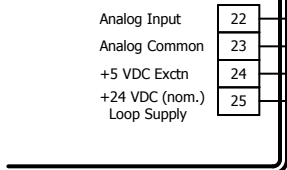
Ultrix 100 Connections  
R = +24 VDC Loop Supply  
BU = 4-20 mADC Return Signal



**Ultrix 100 Ultrasonic Level Transducer**

**4-20 mADC (self powered) sensor connections to the Station Master 2000**  
Version -0002

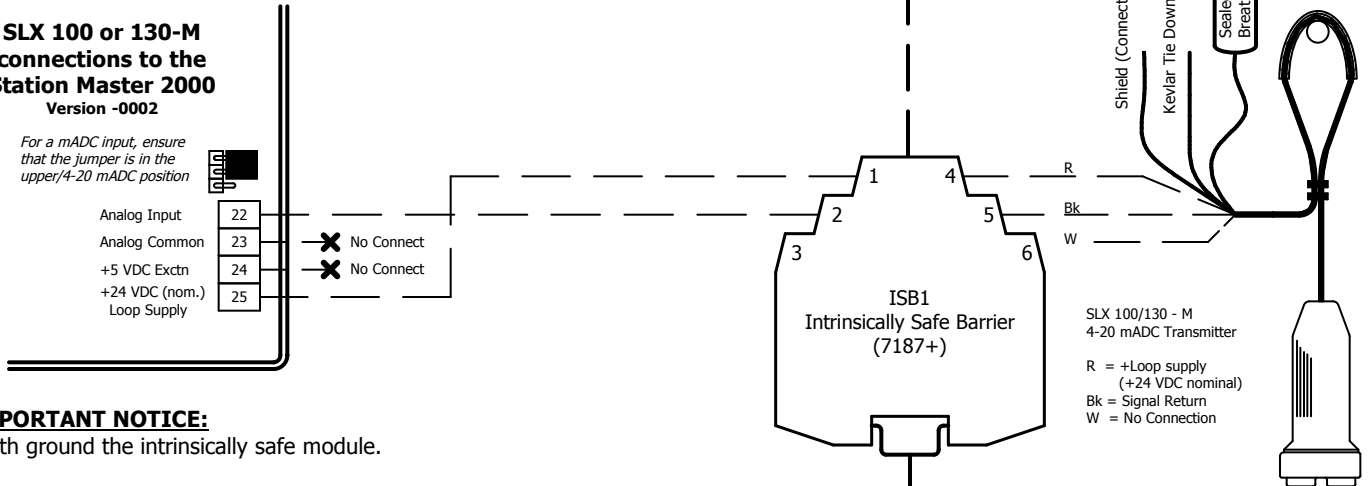
For a mADC input, ensure that the jumper is in the upper/4-20 mADC position



			<b>Contegra</b>		
			12865 Carriage Hills Drive Eagan, MN 55123	651 905-0900 Phone 651 454-4665 FAX	Copyright 2001 Contegra www.contegra.com
03	10/20/03	Added Page 3 - ISB-E1 (7160ac)	Description: Station Master 2000-2 Controller Connection Diagram		
02	8/25/03	Added Page 3 - ISB1 (7187+)			
01	5/8/03	Released	Designed: MCS	Drawing #: 10185-0001-03 Page 2 of 3	
Rv	Date	Description	Date: 5/8/03		

**SLX 100 or 130-M  
connections to the  
Station Master 2000  
Version -0002**

*For a mADC input, ensure  
that the jumper is in the  
upper/4-20 mADC position*



**IMPORTANT NOTICE:**

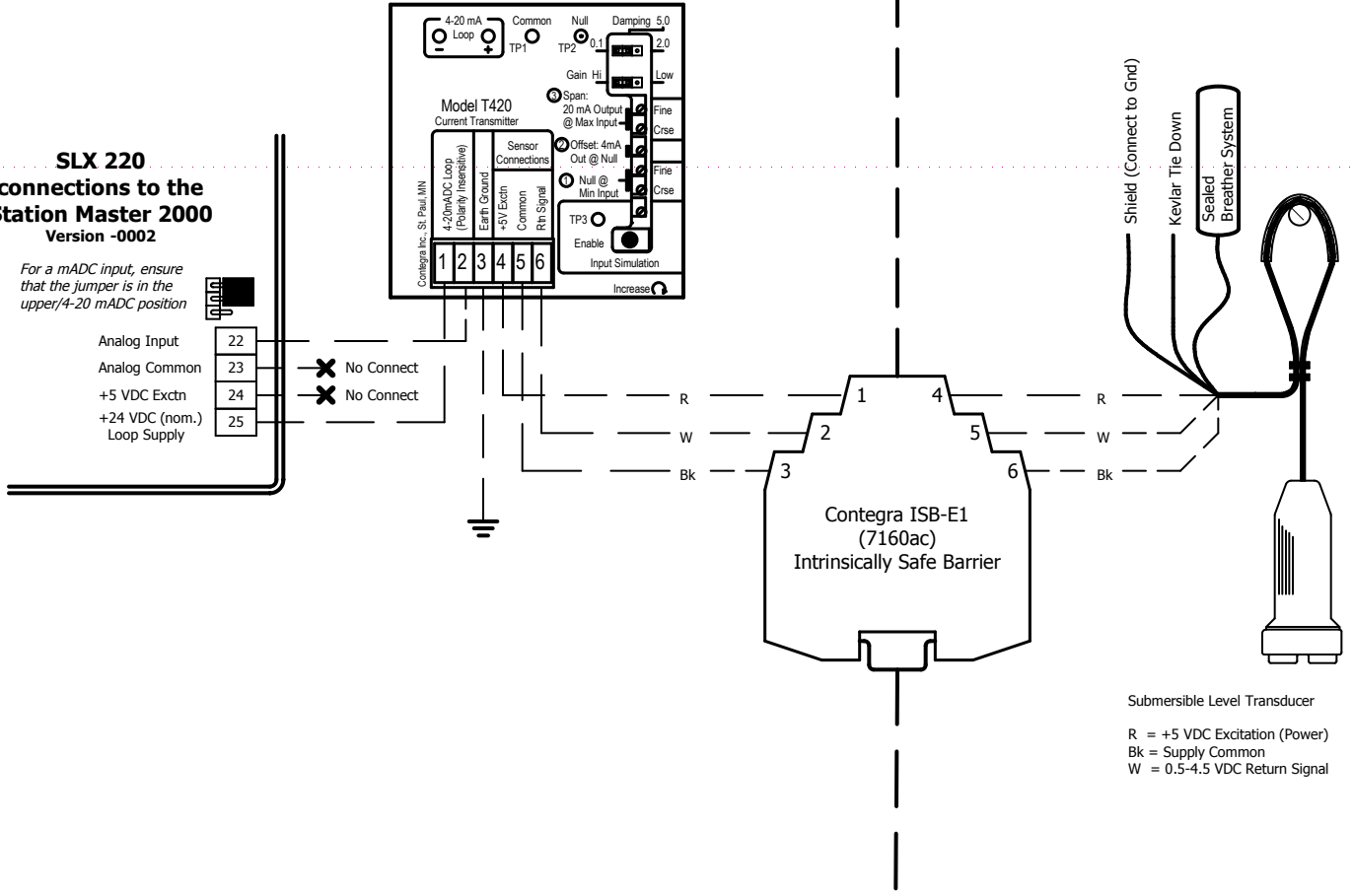
Earth ground the intrinsically safe module.

Wiring from the ground terminal must be connected to a good earth ground in a non-hazardous location and less than 1 ohm (in accordance with Nation Electrical Code Article 250).

Intrinsically safe wiring must be positively segregated from non-intrinsically safe wiring by seperate conduits, housings or by use of grounded metal barriers. For additional information see ANSI/ISA RP12.6, The National Electrical Code and NFPA 70, Articles 500-516.

**SLX 220  
connections to the  
Station Master 2000  
Version -0002**

*For a mADC input, ensure  
that the jumper is in the  
upper/4-20 mADC position*



Submersible Level Transducer  
R = +5 VDC Excitation (Power)  
Bk = Supply Common  
W = 0.5-4.5 VDC Return Signal

**Contegra**

12865 Carriage Hills Drive  
Eagan, MN 55123

651 905-0900 Phone  
651 454-4665 FAX

Copyright 2001 Contegra  
www.contegra.com

03	10/20/03	Added Page 3 - ISB-E1 (7160ac)
02	8/25/03	Added Page 3 - ISB1 (7187+)
01	5/8/03	Released
Rv	Date	Description

Description: Station Master 2000-2 Controller Connection Diagram

Designed: MCS  
Date: 5/8/03

Drawing #: 10185-0001-03 Page 3 of 3