

XDI-XDIwin – 15/30J

4~20mA INPUT

Set up procedure: 204D2C Issue Tv4

Technical Sheet
ref C1180

NEW UNITS ARE SUPPLIED READY TO CONNECT TO A SYSTEM. THE FOLLOWING PROCEDURE MAY NEED TO BE CARRIED OUT FOLLOWING CHANGES TO THE SYSTEM:

1. Insert J8 jumper to receive signal from external 4~20mA source (Fig.3)
2. Connect external 4~20mA source to the 4~20mA input terminal (J11) on the right hand side of the board as shown in Fig. 2
(For call point/E-Stop see Fig.4)
3. Connect terminal J10 as shown in Fig.2
4. Connect DVM (mV range) across TP7 + TP15 to measure current supplied by 4~20mA device (mV = mA)
5. Ensure that the CAN LED is ON and flashing occasionally.
6. Connect RS232 pod to connector J3 and to a PC running HyperTerminal at 4800 baud.
7. The HyperTerminal display shows a continuous data output and allows input from the PC keyboard.
 - a. Press C to enter calibration mode
 - b. Press shift \$ to initialise the memory if new PCB (defaults to Flam %LEL)
 - c. Press G to change gas/signal to the type required for the cell/unit in use. (NOTE: When using a 'user gas' press 'E' to edit name after using 'G' to select. Also make sure to select a vacant user gas number, 61-68, as the addressable sensor will overwrite data entered at the Combi panel.
 - d. The range of the gas/signal selected will have a default setting which can be changed by pressing 'R'
 - e. Press A and enter CAN address of this sensor
 - f. Press N to toggle the number of decimal places between 1 and 2 (i.e. dp=1 or dp=2)
 - g. Press B to toggle the deadband ON and OFF
 - h. Press F to toggle the external fault option ON or OFF (only available when external source has local fault indication)
 - i. With input signal reading 4mA press Z to zero the reading.
 - j. Press S to span the reading. Apply gas / signal from external source and press H or L to adjust the reading.
 - k. Press space to exit the span.
 - l. Press X to exit the calibration mode.
8. Connect to a combi panel and ensure that the sensor reports in correctly. **Note:** that if this sensor is at the end of the communication wires then it will need terminating by inserting jumper J1 (EOL). The continuous data output when connected to HyperTerminal is the same format as for the Flammable sensor. The software used is identical.

Command

A = Set CAN address
G = Select gas type
Z = Zero
S = Span

D = Enter calibration date
Y = Toggle auto zero
H = Set high alarm
L = Set low alarm
O = Set over range alarm
P = List command
X = Exit calibration mode
\$ = Initialise this sensor

Use

Sets the CAN address
Select the gas type from a list
Press when no gas on sensor to give zero
Use when calibration gas applied,
H and L change reading
Enter the calibration date
Auto zero is ON or OFF, small drift is cleared
Sets the high alarm threshold
Sets the low alarm threshold
Sets the over range alarm threshold
List these commands on screen
Exit this PC mode
Use on new PCB to set gas type to Flam

U = Alarm direction
R = Range
N = Decimal points
E = Edit user gas text
B = Toggle deadband
F = Toggle fault Input
= Normally energised

V = View gas log

% = Clear gas log
I = Log interval

Sets rising or falling alarms
Allows a change in maximum value
Toggles between 1 and 2 decimal places
Choose gas description
Deadband of 2.5% can be on or off
External fault input contact can be disabled
Low/high alarm relays and fault relay can be made normally energised
From current log, display how many historical readings to display, up to 2880
Set all 2880 log readings to 0.00
Choose how many seconds between each log reading and whether the log will roll over or stop at 2880 (60 second interval and 2880 readings = 48 hours)

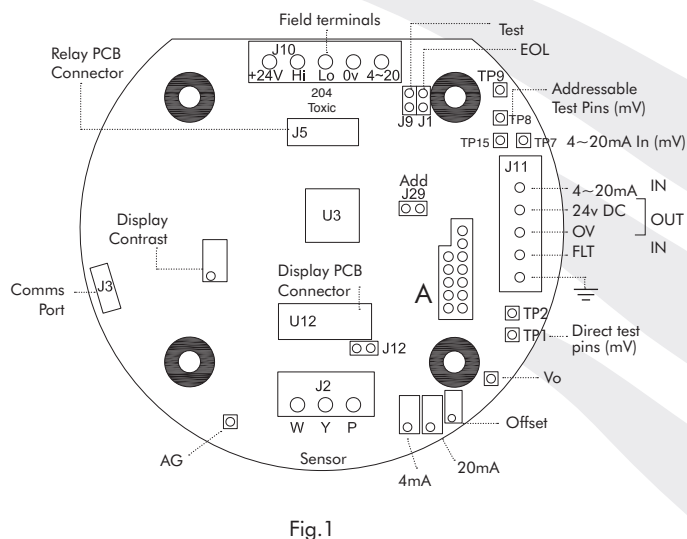


Fig.1

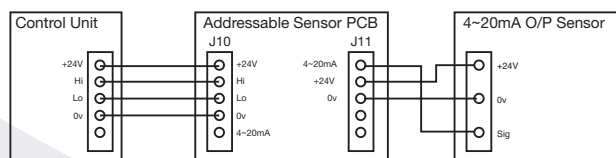


Fig.2

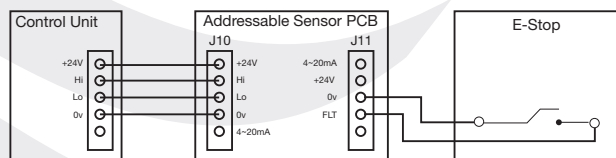


Fig.4

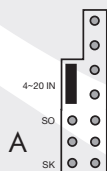


Fig.3

