Wagner Titanus PRO•SENS®
Conventional Line Interface (CLI)

Installation guide

Item Number: 7010-1010 & 7010-1110

Please observe anti-static precautions at all times.

Installation:

To complete installation you will need at least:

- A *PRO•SENS®* Unit
  One or two Detector Heads
  Note: 2 Head setups trigger the common Zone
  An Air Filter Unit per Detector Head

- A Balanced Pipe System
  Refer to the *PRO•SENS®* Technical Manual MAN3046, and the "TranspTimeTITANUS" pipe transport time calculator.

- A 27V Power Feed
  Wiring to a Conventional Detection Zone

Setup *PRO•SENS®* Detector Head(s) & Base Board:

1. Ensure power is not connected to the *PRO•SENS®.*

2. Set the Detector Head DIP switches as required (see the *PRO•SENS®* Technical Manual Section 4.3.1.1)

Standard-Setting:

Sensitivity (%/m)	DM-Tx-	50	10	01		
Nominal-sensitivity	1x	**0,50**	0,10	0,015	O	O
	2x	1,0	0,20	0,03	X	O
	4x	- -	**0,40**	**0,06**	**O**	**X**
	8x	- -	0,80	0,12	X	X

	3	4
Alarm delay		
0 s	O	O
10 s	**X**	**O**
30 s	O	X
60 s	X	X

	5	6
Air flow range		
small	X	O
medium => DM-Tx-01/10/50	**O**	**X**
large	O	O
very large	**X**	**X**

	7	8
Fault delay		
30 s	O	X
2 min	**X**	**O**
15 min	X	X
60 min	O	O

	9
Fault latched	
Off	O
On	**X**

	10
LOGIC·*SENS*	
Off	O
On	**X**

XXXX Standard-setting

O = OFF
X = ON

General recommended Detector Head settings are:

Sensitivity: As required for the installation.

Alarm Delay: As required to suit the installation.

Air Flow Range: Medium.

Fault Delay: 30 Seconds.

Fault Latched: As Required.

LOGIC•SENS: Off for Transit Time testing.

Note: Before selecting suitable settings consult applicable local standards, regulations and job specifications requirements.

3. Install the of the Detector Head(s):

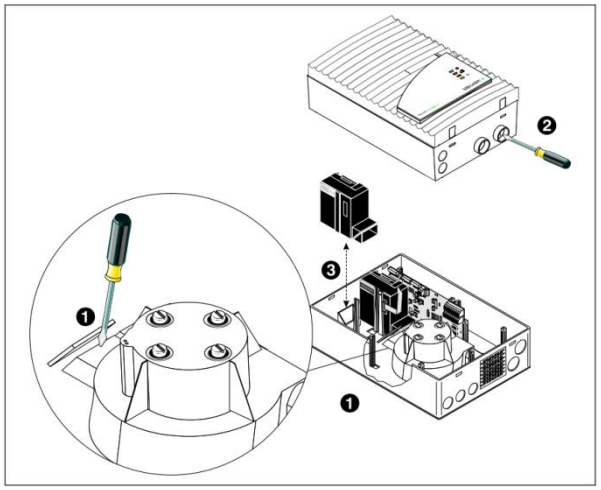

Figure 2: Detector Head Installation

3.1 With a flat blade screwdriver, carefully undo the snap-in housing closures by simultaneously pressing in the clips located on the top or bottom of the unit. Carefully lift the housing lid. Pull the cable from the display board and remove the lid.

3.2 If fitting the 2nd detector carefully remove the plastic self-adhesive cover(s) on the aspirator chamber to allow air flow to the detector head. If necessary use a screwdriver to assist. (The 1st position ventilator cover is already removed).

NOTE: The right hand side location is for when only one detector is fitted. The left is for a second detector.

3.3 Carefully break the corresponding knockouts for the pipe system(s) required, again using a screwdriver if required. (Marked as "I" and "II" on the enclosure).

3.4 Note the correct detector head orientation (figure 2) and install the detector by spreading the support clamps and placing the detector head between them. Both clamps should fit tightly against the module and snap in audibly. Press the support clamps together.

3.5 If two detector heads are being fitted, remove the jumper JU4 from the base board (see Fig

3) and move the jumper for pins 2+3 on JU3 to pins 1+2 on JU3(see Fig 4)

3.6 Connect the detector module to the base board via the supplied ribbon cable. Connection: X1 for the 1st detector. X3 for the 2nd detector.

3.7 Set the ventilator voltage (See Fig 5) as specified by the TranspTimeTITANUS calculation. Remove the jumper for higher 9V operation and leave in for 6.9V (default).

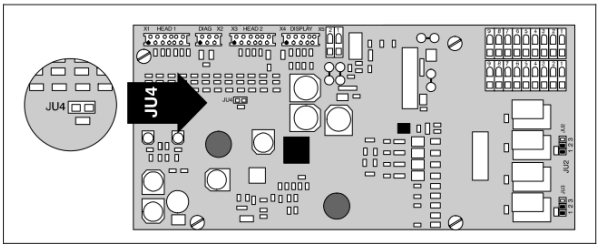

Figure 3: Jumper Setting: Two Detector Operation

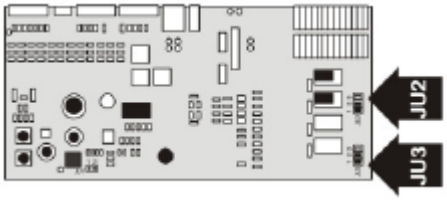

Figure 4 Location of JU3

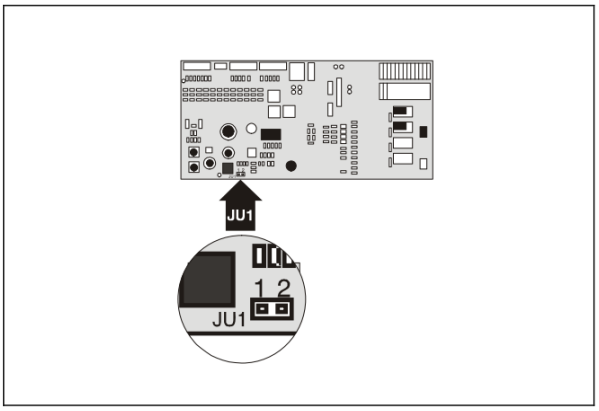

Figure 5: Ventilator Voltage Setting

Mount the *PRO•SENS®* Unit:

See Figure 6 for hole locations on the *PRO•SENS®* box. Cylinder or flat head screws should be used with a:

- Diameter of thread: max. 6 mm
- Diameter of head: 10 mm

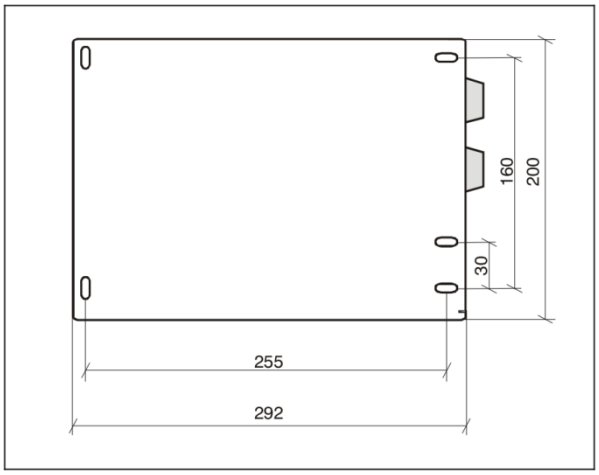

Figure 6: Back Box Mounting Hole Positions

When selecting a position for the unit, make sure that the air outlet of the *PRO•SENS®* and adjacent objects is at least 10 cm. Please refer to Section 5.5 of the *PRO•SENS®* Technical Manual.

The middle inlet in Fig 2 is for the first pipe (1st detector) and the outer for the 2nd detector if fitted.

Note: **Do not** glue the Pipe connection to the *PRO•SENS®* Unit. See Section 5.5.2 of the *PRO•SENS®* Technical Manual.

Ensure there is room for the filter box (the filter box contains a mounting template) and then connect through to the air sampling pipe network.

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Wiring:

Bring the field cabling in through a suitable knockout and terminate cabling to the CLI (See Fig 7). Power is already pre-wired through to the *PRO•SENS®* Main Board power supply terminals (See Fig 8).

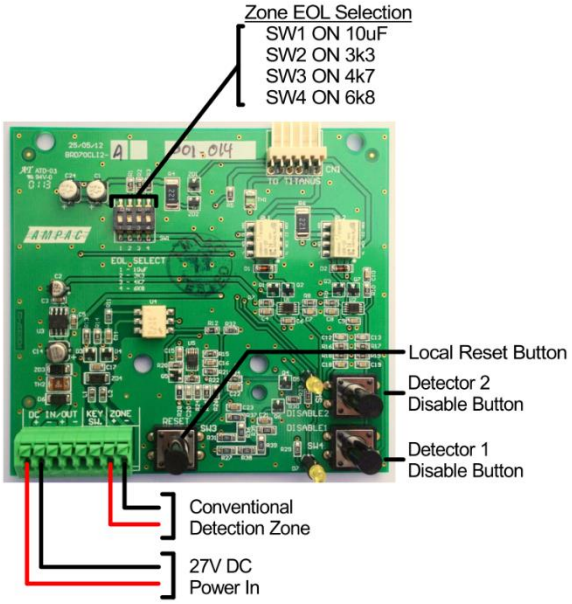

Figure 7: CLI External Connections and Settings

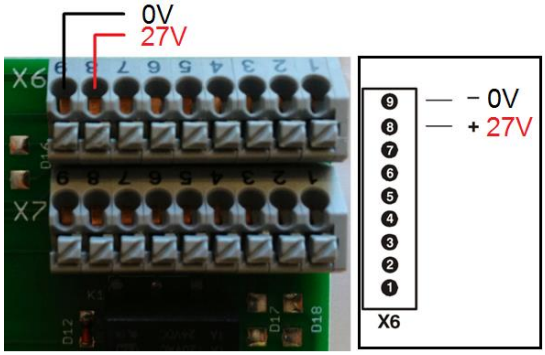

Figure 8: PRO•SENS® Power Connection

Operation:

Check the installation over, and then apply power.

The Wagner Titanus Diagnostics Tool can be connected to the APID Diagnostics Port "X2 Diag" on the *PRO•SENS®* Main Board for display of detailed system information.

Set 1 of the 4 DIP Switches "ON" for the required value End Of Line (EOL) of the Conventional circuit from the Main Panel (See Fig 7).

Go to Section 7 of the *PRO•SENS®* Technical Manual for the Commissioning Procedure, ensuring that the signals tested transmit through to the Main Fire Panel system.

Once the unit is commissioned fit the front lid cover, ensuring that the front lid ribbon cable does not clash with the CLI buttons. Route the cable to the right hand side of the CLI board.

Finally, check the button operations. The Disable button toggles the disable condition for each Detector Head. The LEDs are lit steady yellow when the corresponding Detector Head is Disabled.

The Reset button resets the local *PRO•SENS®* alarm. It does not reset latched alarms registered at the Main Panel. This can be used for local testing. A reset at the Main Panel performs a reset at the panel and the *PRO•SENS®* device.

Flash Code Fault Reference:

The status of a detector head can be determined by a flash code of the LED to the side of the DIP switches on a detector head.

Detector Head Flash Code Reference:

Flashes:	Meaning:
Steady Lit	Hardware defect in the Detector Head
2 Flashes	Air Flow Too Small (Blockage)
3 Flashes	Air Flow Too Large (Fracture)
4 Flashes	Stabilising after Power On

Fault Diagnosis:

1. A CLI Reset or Isolate button is not operating.

Remove the front cover, check for free operation of buttons.

Route cables away from the switches before replacing cover.

2. The Smoke Level indication on the DIAG tool is responding slowly.

Check if LogicSens is enabled. This can delay response.

Check the flow rate for low flow/pipe system air leaks.

3. A Detector Head is reporting low flow.

Check the detectors aspirator cover guard is cleanly removed.

Check for any blocks in the pipe system or aspiration holes.

4. A Detector Head is reporting high flow.

Check the detector module is seated properly.

Check for any breaks in the pipe system.

5. The CLI or *PRO•SENS®* is not responding.

Power down, check all cables are firmly connected, repower. Measure the supply voltage.

For further information please refer to the *PRO•SENS®* Technical Manual MAN3046 section 8 "Maintenance" or contact your local Ampac branch for technical assistance