Addendum to ID3000 Manuals

1 Introduction

Panel software version 4.33 introduces the following enhancements:

a. Support for SMART multi-criteria sensors.

b. Support for device coincidence across a range of cells.

c. Improved operation for printer paper advance.

2 Changes to Panel Configuration Manual

The following sections of manual 997-506-000-2 are modified as a result of this software enhancement.

Section 4.2 changes

'MAINT. *(access level 3 only unless Maintenance Urgent)*' is added to the list of tabs, below AUX. Also, 'TECH. ALARM' has a higher priority than 'PRE-ALARM'.

Section 4.3 changes

Add:

'**Maint Tab**

This displays the maintenance status of any SMART, Optiplex and VIEW sensors installed on the loops (if arrows are displayed then more than one message exists). If the panel is connected to an ID^{2}net network and more than one panel contains sensors requiring maintenance, an option to choose the panel is provided.

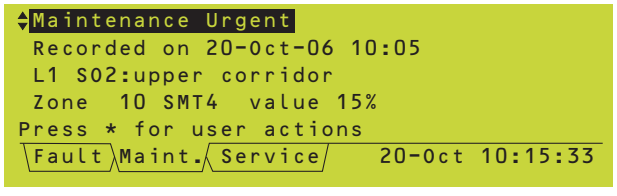
There are four status messages:

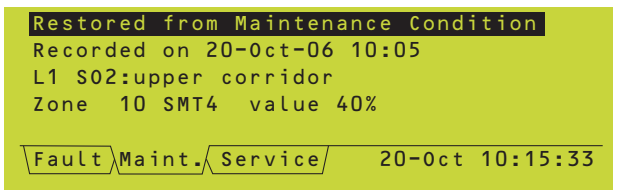
a. Maintenance Urgent. Indicates drift limit condition and is accompanied by a SENSOR FAULT fault message.

b. Maintenance Alert. Indicates drift limit or continuous IR saturation condition. Maintenance Alert is also displayed in respect of any Optiplex or VIEW sensors.

c. 6 months to cell life expiration (SMART4 only).

d. IR light saturation condition (SMART4 only).





If a sensor returns from a maintenance condition to its normal state, the display is as shown opposite.

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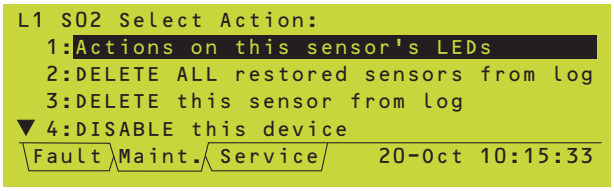
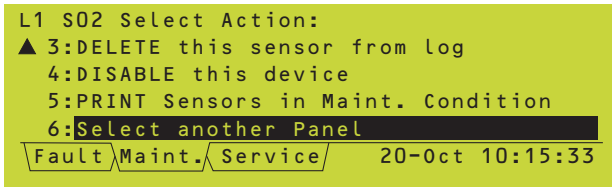




From the 'Maint.' tab, when the status of an individual sensor is displayed, press the ✱ pushbutton to display a Select Action menu (the illustrations opposite cover all possible options - in practice not all options may be present, see below for details). The options are:

a. Actions on this sensors's LEDs. The LED can be set to OFF, 1-second pulsing, or ON STEADY. This option is always available.

b. DELETE ALL restored sensors from log. The maintenance status is stored in a log (capacity 100 records per panel). This option delete records from the log for all sensors that are in the 'Restored from Maintenance Condition' state. Available provided at least one sensor is in this state.

Note: Use the Historic & Data Log Tool (supplied with the Windows Support Tool) to access the log.

c. DELETE this sensor from log. Available only if the current sensor is in the 'Restored from Maintenance Condition' state.

d. DISABLE THIS DEVICE. Always available, may be ENABLE THIS DEVICE depending upon disablement status of current sensor.

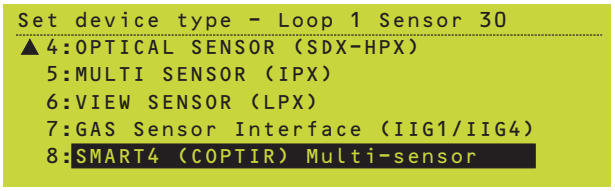
e. PRINT Sensors in Maint. condition. Always available.

f. Select another Panel. Displays the Select Panel option. Only available if the panel is connected to an ID²net and more than one panel contains sensors requiring maintenance.'

Section 4.4.3 changes

Updated menu structure, see next page.

Section 5.1.2.1 changes



Add the following device type:

'SMT4 Optical/thermal/infra-red/ carbon monoxide SMART4'

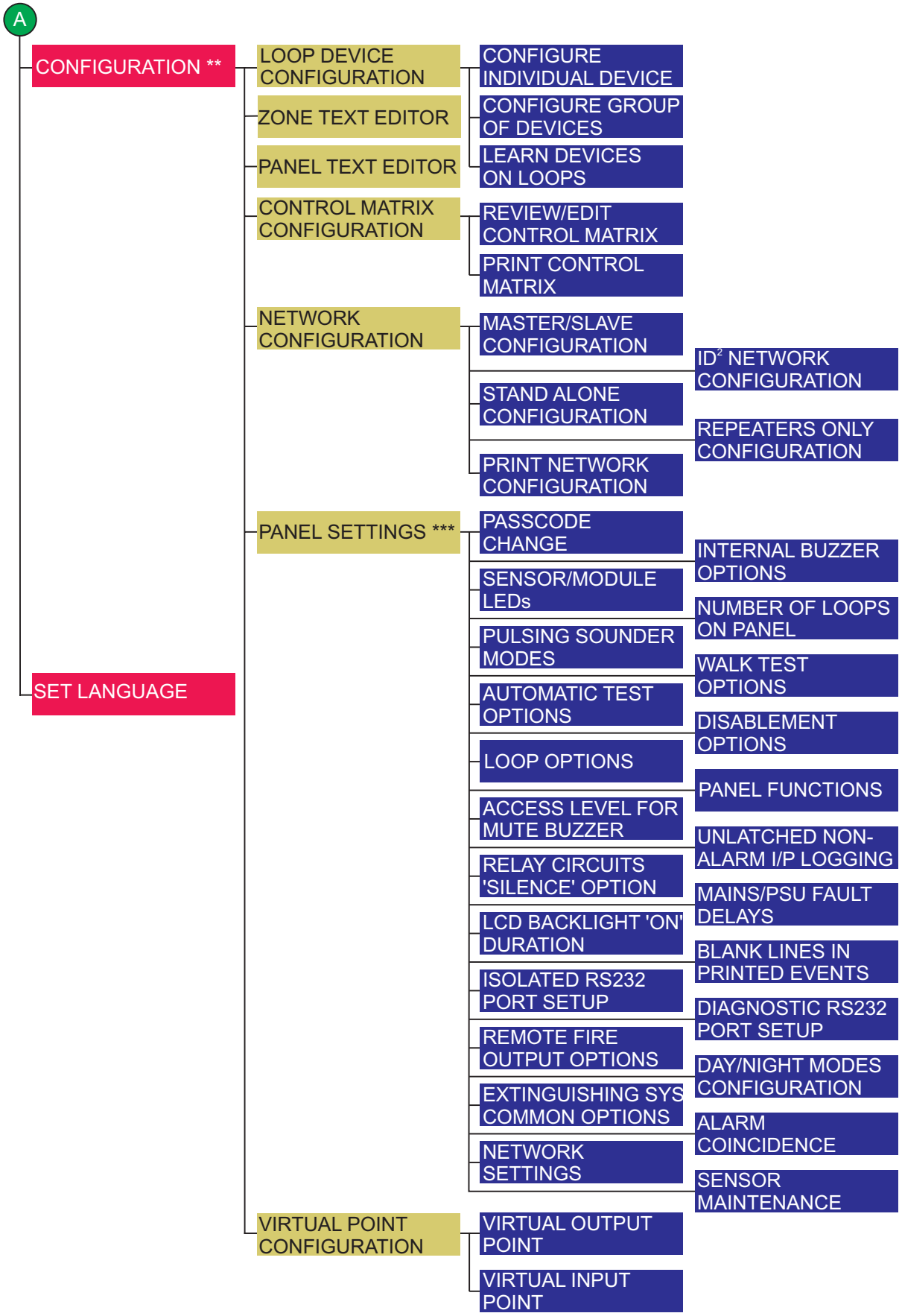
Section 5.1.2.4 changes

Replace each 'except MULTI' with 'except MULTI and SMART'.

Change the cross-reference for Gas sensors from 5.1.3.3 to 5.1.3.4.

Add:

'Further information about SMART sensors sensitivity is given in **Section 5.1.3.3**.



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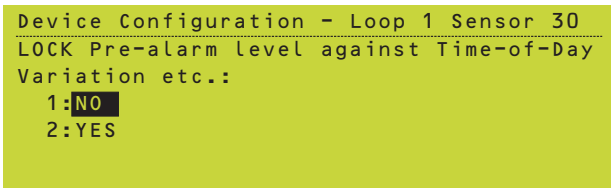

To the Pre-alarm description, add the illustration opposite and the following text:

'The option to Lock the Pre-alarm level is then provided:

a. If NO (default) is chosen and Time-of-Day is used to vary the alarm sensitivity (Section 5.1.2.7), Pre-alarm sensitivity changes with Time-of-Day by the same amount that is set for Alarm. Also, for MULTI/SMART sensors, Pre-alarm is ignored at those times when Thermal-only mode L6 is in operation for Alarms as a result of a Control Matrix rule or Time-of-Day.

b. If YES is chosen, the Pre-alarm sensitivity remains fixed at the selected level. Also, for MULTI/SMART sensors, Pre-alarm is no longer ignored at those times when Thermal-only mode is in operation for Alarms. A '#' symbol is displayed beside the Pre-alarm value.'

Section 5.1.3 changes

Rename this section 'VIEW, MULTI, SMART and Gas Sensor Interface Sensitivities'.

In Section 5.1.3.2., replace the last sentence of 'Sensitivity (including Optiplex)' by the following:

'In Thermal-Only mode (L6), Pre-alarm applies to both smoke and heat, unless L6 is linked to Time-of-Day or Day Mode with Lock Pre-alarm monitoring not set, in which case there is NO Pre-alarm in L6 mode.'

New Section 5.1.3.3:

'SMART Sensors

The system supports Self-optimising Multi-criteria Alarm Recognition Technology (SMART) sensors.

The SMART4 (abbreviated to SMT4) sensor has the capability for carbon monoxide, photoelectronic (optical), infra-red and thermal detection.

This sensor has a thermal-only mode as described on the previous page for Optiplex.

The Alarm and Pre-alarm levels and defaults are as described for Optiplex, and the verification delays are the same as for a MULTI sensor.'

Renumber existing 5.1.3.3 as 5.1.3.4

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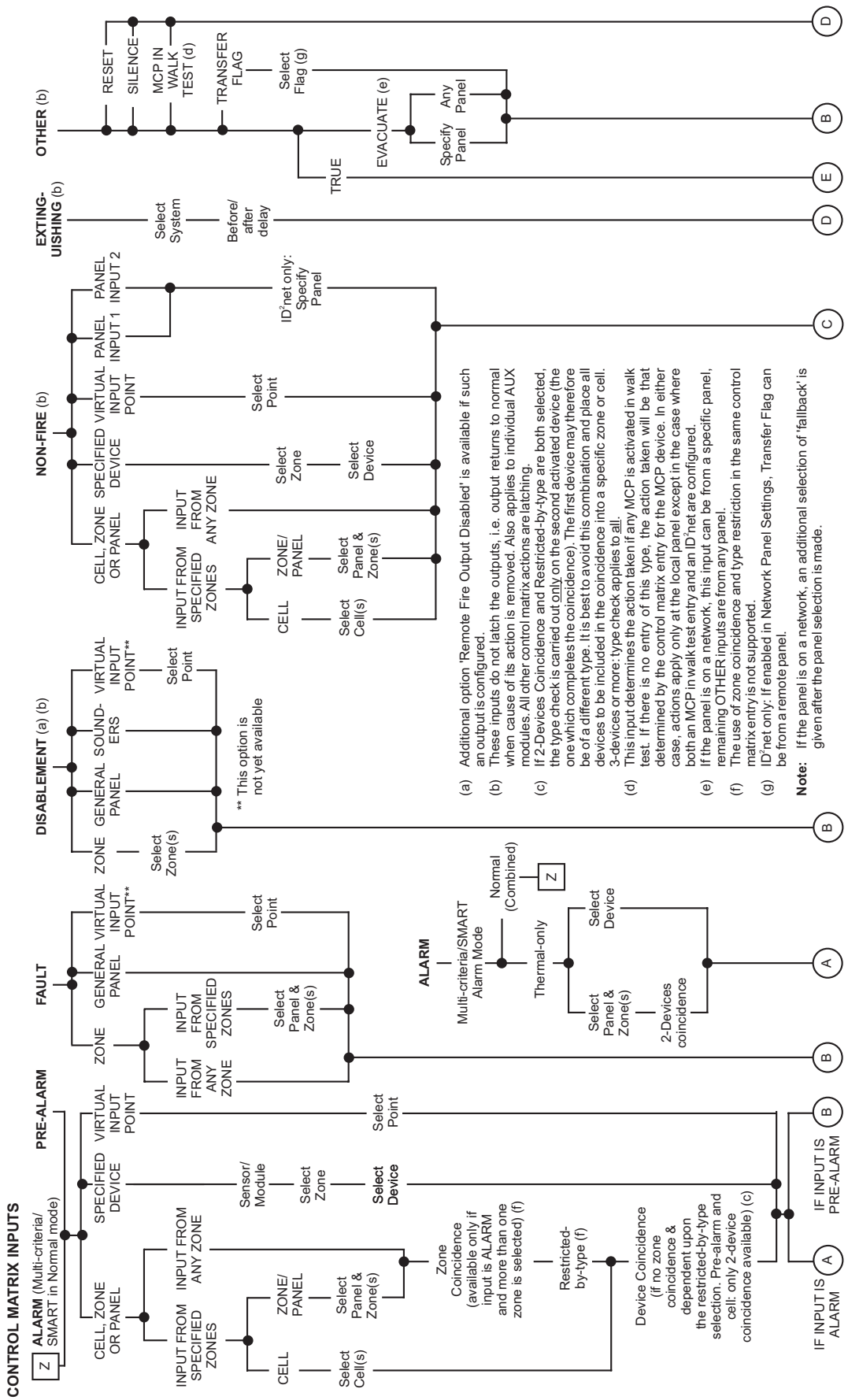
Section 7.2 changes

The illustration now shows the Thermal Alarm option to the Control Matrix input.



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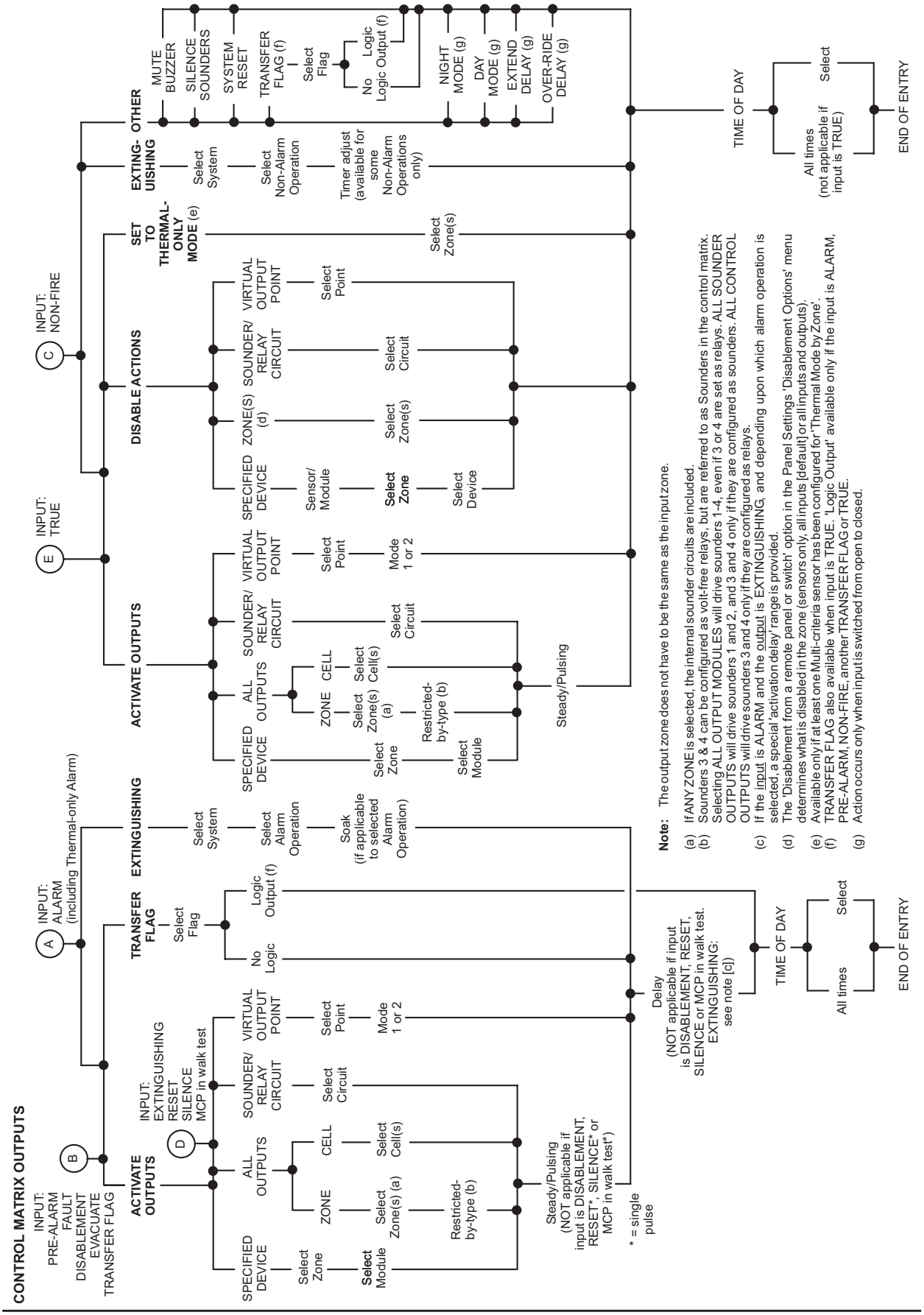
Section 7.3 changes

The illustration now includes Thermal Alarm as a possible input option 'A'.

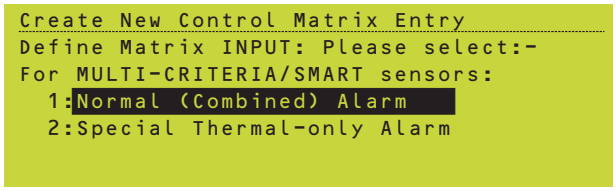


Note: The output zone does not have to be the same as the input zone.

(a) If ANY ZONE is selected, the internal sounder circuits are included.
(b) Sounders 3 & 4 can be configured as volt-free relays, but are referred to as Sounders in the control matrix. Selecting ALL OUTPUT MODULES will drive sounders 1-4, even if 3 or 4 are set as relays. ALL SOUNDER OUTPUTS will drive sounders 1 and 2, and 3 and 4 only if they are configured as sounders. ALL CONTROL OUTPUTS will drive sounders 3 and 4 only if they are configured as relays.
(c) If the Input is ALARM and the output is EXTINGUISHING, and depending upon which alarm operation is selected, a special 'activation delay' range is provided.
(d) The 'Disablement from a remote panel or switch' option in the Panel Settings 'Disablement Options' menu determines what is disabled in the zone (sensors only, all inputs [default] or all inputs and outputs).
(e) Available only if at least one Multi-criteria sensor has been configured for 'Thermal Mode by Zone'.
(f) TRANSFER FLAG also available when input is TRUE. 'Logic Output' available only if the input is ALARM, PRE-ALARM, NON-FIRE, another TRANSFER FLAG or TRUE.
(g) Action occurs only when input is switched from open to closed.

Section 7.6.1.1 changes

The illustration at left goes before the current first illustration. The first sentence is replaced by the paragraphs below:



'The first display allows definition of the effect of alarms from Multi-criteria sensors that have a thermal-only mode:

a. If the first option is selected, then the Control Matrix input will be activated by any alarm from the sensor.

b. If the second option is selected, then the Control Matrix input will be activated only by a **thermal** alarm. Any Control Matrix rules for which the input is normal alarm from the device will also be activated. This option applies only to Optiplex and SMART sensors.

To define the ALARM input:

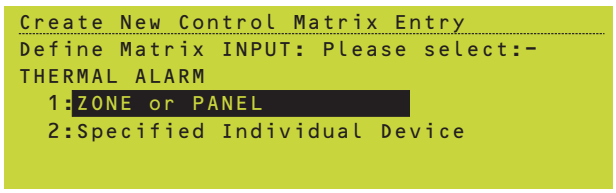
a. For Multi-critera sensors in Normal alarm and for all other types of sensor, follow steps 1 to 12 below.

b. For Multi-critera sensors in Thermal-only alarm, refer to the description at the end of this section.'

Step 8 'Device Coincidence' add a note:

'Note: For device coincidence to occur the devices in alarm must normally be in the same zone or cell. However, **for cells only** the devices can be in a range of cells if the panel setting is so configured (see **Section 11.21**).'

At the end of Section 7.6.1.1, add the illustration at left, and the following description:



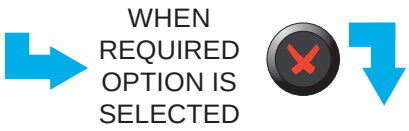
'THERMAL-ONLY ALARM

The Multi-criteria sensors can be selected by zone (Any or specified) or by individual device.

Device coincidence is available BUT ONLY FOR 2 DEVICES. No other options are provided.'

Section 7.6.2.7 changes

Change 'all Optiplex sensors' to 'all Multi-criteria sensors'.

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Panel Settings
Operation of COINCIDENCE for Control
Matrix Input Rules with RANGE OF CELLS:
  1:Must be in same CELL
  2:Coincidence spans RANGE of CELLs
```

Section 11.21 changes

Add the illustration shown opposite and the following text to the end of this section:

'Select the scope of Device Coincidence when the Control Matrix input zone selection is a range of cells:

a. Two or more devices in alarm in the same cell. This is the default.

b. Two or more devices in alarm within the selected range of cells.'

Section 13.1 changes

Add:

'SMART sensors are described in **Section 5.1.3.3**.'

Section 13.2 changes

In alarm verification delays table replace 'MULTI' by 'MULTI & SMART'.

3 Changes to Installation & Commissioning Manual

The following sections of manual 997-274-000-4 are modified as a result of this software enhancement.

Section 8.1 changes

Add the following to the routine testing:

‘(f) the competent person should enter access level 3 to check whether a ‘Maint.’ tab is present and, if so, investigate the messages displayed there.’

Appendix 1 Section 1.1.8 changes

Change the following message:

OPTIPLEX sensor setup fault

to

‘Incompatible or faulty sensor installed’

and the action to:

‘For IPX sensors, replace by SDX751TEM or equivalent. For other MULTI and SMART sensors, replace (sensor is faulty).’

Add the following message:

‘SENSOR FAULT

For VIEW, MULTI (Optiplex), or SMART sensors: analogue reading is below the Chamber fault threshold, or below the Maintenance Urgent threshold, or a Maintenance Alert has existed for longer than 100 days without any action being taken. For HEAT, ION, OPT or GAS the analogue reading is below the Chamber fault threshold. Action: Notify the service engineer.’

4 Changes to Operating Manual

The following sections of manual 997-505-000-2 are modified as a result of this software enhancement. (A copy of the next page should be left with the customer’s copy of the Operating Manual).

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AMENDMENTS TO OPERATING MANUAL

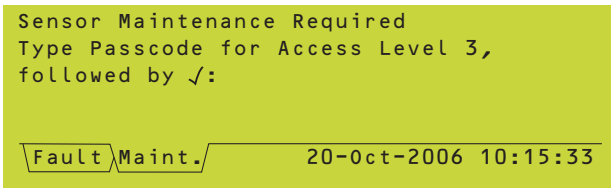
Section 2.1 changes

In the description of the keypad, the sentence 'When the panel status is normal, down arrow advances the printer paper' is replaced by:

'Press and hold ▼ to advance the printer paper (maximum of 20 lines are advanced for a single press of this pushbutton).'

Section 5.2 changes

'MAINT.' is added to the list of tabs, below AUX. Also, 'TECH. ALARM' has a higher priority than 'PRE-ALARM'.

Add:

'If the Maint tab is displayed, contact your fire system servicing company.'