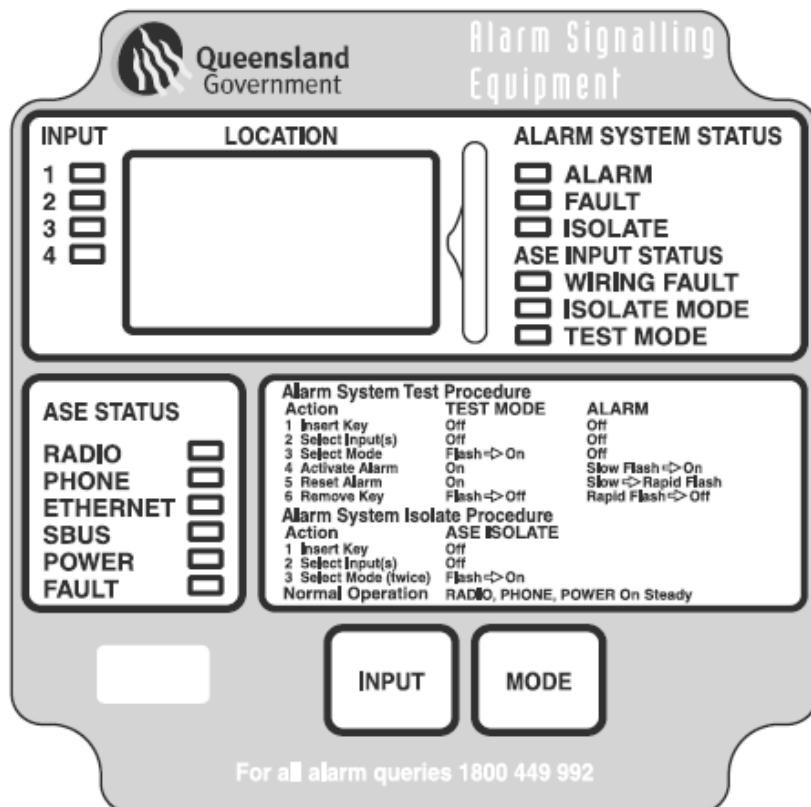# CENTAUR™ II CUBE
Alarm Signalling Equipment
OPERATING INSTRUCTIONS

CENTAUR™ II CUBE   Alarm Signalling Equipment   OPERATING INSTRUCTIONS

The Centaur™ II Cube is a self-contained alarm signalling device which monitors up to 4 fire alarm systems (either fire detection or sprinkler), and sends alarm, fault and isolation information to a Control and Monitoring Station (CMS). It communicates through a radio link, conventional dial-up telephone line and/or Ethernet. Typically the Radio or Ethernet is the primary link and the phone line is backup only.

Power-Up Sequence and ASE STATUS Indicators

On power-up, the ASE will turn all indicators and buzzer on for three seconds, then the POWER indicator will stay on while some internal checks are carried out.

After the internal checks have been completed the POWER indicator will turn off and a coded form of the software version number will be displayed on the INPUT indicators for 3 seconds.

One of the RADIO, PHONE or ETHERNET indicators (the primary link) will then flash rapidly until the ASE has established a connection with the CMS.
The outcome of this is shown on the indicator as follows:

Indicator	Status
Off	Not used
Rapid Flashing	Establishing Connection
Flashing	Link fault
On	Link O.K.

Any programmed backup link indicators will turn on steady, unless there is a problem with the link.

If the POWER indicator is off or flashing, then there is a problem with the power supply for the ASE, or the voltage is too low.

If the FAULT indicator is on or flashing, then the ASE is not functioning due to an internal error. Contact your Fire Protection Contractor.

Normal Operation

Normal operation of the ASE is shown by the POWER and at least one of the RADIO, PSTN or ETHERNET indicators being on steady, and no flashing indicators.

The INPUT indicators, numbered 1 through 4, correspond to the 4 alarm systems that can be monitored for Alarm, Fault and Isolate conditions, as well as open and short circuit wiring faults.

On detecting any off-normal condition the ASE will light the corresponding INPUT indicator and flash the appropriate ALARM, FAULT, ISOLATE or WIRING FAULT indicator(s) until the new condition has been transmitted to and acknowledged by the CMS. Then the indication will turn on steady.

When the condition returns to normal, the corresponding indicator will flash until the condition is acknowledged by the CMS, then the indication will clear.

If more than one alarm system is off-normal, the ASE will cycle around these, showing each off-normal input and its status for two seconds. It will take 8 seconds to cycle through if all 4 inputs are enabled and off-normal.

Key Insertion

The Centaur™ II Cube ASE uses a key that must be inserted to enable test or isolate modes. After inserting the key, select the inputs to be tested or isolated with the Input button. All enabled inputs are selected when the key is first inserted (shown by all the INPUT LEDs flashing for 5 seconds); each subsequent press of the Input button will step through each enabled input (shown by the flashing INPUT LED) and back to All.

While the selected Input LEDs are flashing use the Mode button to select test mode (1 press) or isolate mode (2 presses). After 5 seconds, the selected (flashing) mode will be activated by the ASE and the LEDs will go steady.

Isolate Mode

When the ASE is in Isolate Mode any input conditions sent to the CMS are marked as being Isolated. This stops the CMS acting on them.

Isolate Mode can be activated by inserting an ASE key, selecting the inputs to isolate and pressing the Mode button twice so the ISOLATE MODE indicator is flashing (it will go steady after 5 seconds). In Isolate Mode, the Input indicators will cycle round all enabled inputs and show the status of each input, even if the input is normal.

The ASE will remain in Isolate Mode until the key is removed, it times out after 12 hours, or it is cancelled by a CMS operator. If Isolate Mode times out, or a FAS input is in Alarm when Isolate Mode is about to exit, the ASE will beep and flash the ISOLATE MODE LED for 15 seconds. Reinserting the key during the 15 second period will restart Isolate Mode with a new 12 hour timeout and prevent the Alarm being sent to the CMS. The Alarm should be cleared at the fire alarm panel before attempting to exit again.

Test Mode

When the ASE is in Test Mode any input conditions sent to the CMS are marked as being a Test. This stops the CMS acting on them. The CMS still sends an acknowledgement of the new condition back to the ASE. This allows tested conditions to be checked that they can be successfully received by the CMS.

To enter Test Mode insert a valid ASE key, select the inputs to be tested and press the Mode button once. The ASE will cycle around all enabled inputs and show the status of each, even if the input is normal.

Test Sequence	TEST MODE Indicator	ALARM SYSTEM STATUS Indicator
1 Insert key	Off	Off
2 Select inputs	Off	Off
3 Select Mode	Flashes then On	Off
4 Activate the tested condition (eg. Alarm)	On	Slow flash, then On
5 Reset the tested condition	On	Slow flash, then Rapid flash
6 Remove key	Off after 5 seconds flashing	Rapid flash then Off

Alarm, Fault and Isolate conditions can be tested for all connected alarm systems, as desired.
Check that the ALARM, FAULT and ISOLATE indications for all inputs are either flashing rapidly or are off before removing the ASE key.

The ASE will remain in Test Mode until the key is removed, or it times out after 2 hours. If Test Mode times out, or a FAS input is in alarm when Test Mode is about to exit, the ASE will beep and flash the TEST MODE LED for 15 seconds. Reinserting the key during the 15 second period will restart Test Mode with a new 2 hour timeout and prevent the alarm being sent to the CMS. The alarm should be cleared at the fire alarm panel before attempting to exit again.

Key Removal & Timeout

When the key is removed or there is a timeout of Isolate or Test Mode, all input conditions will be sent to the CMS. However, when removing the key there is a 5 second period when the key may be re-inserted to stop the input conditions being sent to the CMS. During this period, the relevant TEST MODE or ISOLATE MODE indicator will flash rapidly. If any of the inputs are in Alarm or a mode is timing out then the exit warning period will be 15 seconds and the buzzer will beep throughout.

If the ASE loses power or restarts for any reason (e.g., requested by the CMS), and the key is still inserted on power up, then any Test or Isolate Modes will be retained and start new 2 or 12 hour timeouts respectively.

Daily Test

The ASE carries out a test every day to ensure that it is operating correctly. At a pre-set time (which may vary with each ASE) an internal check is performed, then the ASE attempts to send a sequence of special test messages to the CMS (using the telephone line if it is present).

These tests are carried out automatically with no change to what is being shown on the indicators. However, the PHONE indicator will eventually start flashing if the telephone call to the CMS is unsuccessful.

Standards Compliance

The ASE is approved to AS4428.6 - afp 2360 applies.

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