



### Product Overview

- The S737 Voyage Data Recorder (VDR) interface circuit board is installed in close proximity to the Syncro AS Marine fire control panel. It is powered from the panel's Auxiliary 24volt supply output
- When any fire, faults, disablement or panel control operations take place, their details are passed to the VDR equipment over a RS485 2 core shielded cable connection.
- The VDR interface uses NMEA 0183 standard message format.
- The messages will include detection device address, zone and event type, up to 82 characters total
- The Syncro AS Marine panel does not monitor the link to the VDR, but sends a "heartbeat" message at 30 second intervals. This heartbeat message allows the VDR system to monitor and report any failures in the data connection
- Consideration must be taken as to the loading on the main panel.

### Features

- NMEA 0183 message format
- RS485 data connection to VDR
- Heartbeat sent every 30 seconds
- Small board profile
- Panel powered
- Low current consumption

### Message Format

#### Sample message from Syncro AS Marine panel

Fire 18/02/09 08:57  
SMOKE DETECTOR ADR=120.00 ZONE 15

**Sentence format:** \$PKENM, datafield!\*hh<cr><lf>

**Heartbeat format:** \$PKENH,OK\*hh<cr><lf>

#### Data Structure

<b>\$</b>	- Start of message
<b>P</b>	- Proprietary code
<b>KEN</b>	- Manufacturers code (Kentec)
<b>H</b>	- Sentence type H = Heartbeat M = Message
<b>,</b>	- Data separator
<b>OK</b>	- Text string for heartbeat
<b>*</b>	- Checksum indicator
<b>hh</b>	- 8-bit XOR – checksum in ASCII
<b>&lt;cr&gt;&lt;lf&gt;</b>	- End of message

Note: Overall message truncated to 82 characters

### Technical

<b>Product code</b>	- S737
<b>Supply voltage</b>	- 21 - 30V DC
<b>Quiescent current consumption</b>	- 62mA at 24V
<b>Weight</b>	- 1kg
<b>Communications (panel to S737)</b>	- RS232 via ribbon cable
<b>Communications (to VDR)</b>	- RS485 two wire
<b>Maximum distance from panel</b>	- 1.2km (using correct type of cable)
<b>PCB size</b>	- 190mm x 61mm
<b>Cable capacity</b>	- 2.5mm per terminal
<b>Operating temperature</b>	- -10°C to +50°C
<b>Operating humidity</b>	- To 95% (non condensing)