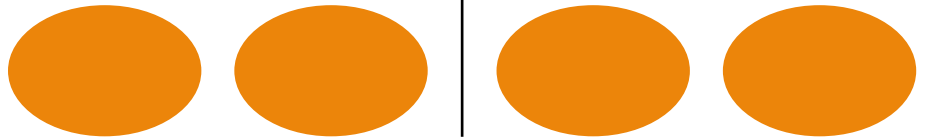


R3



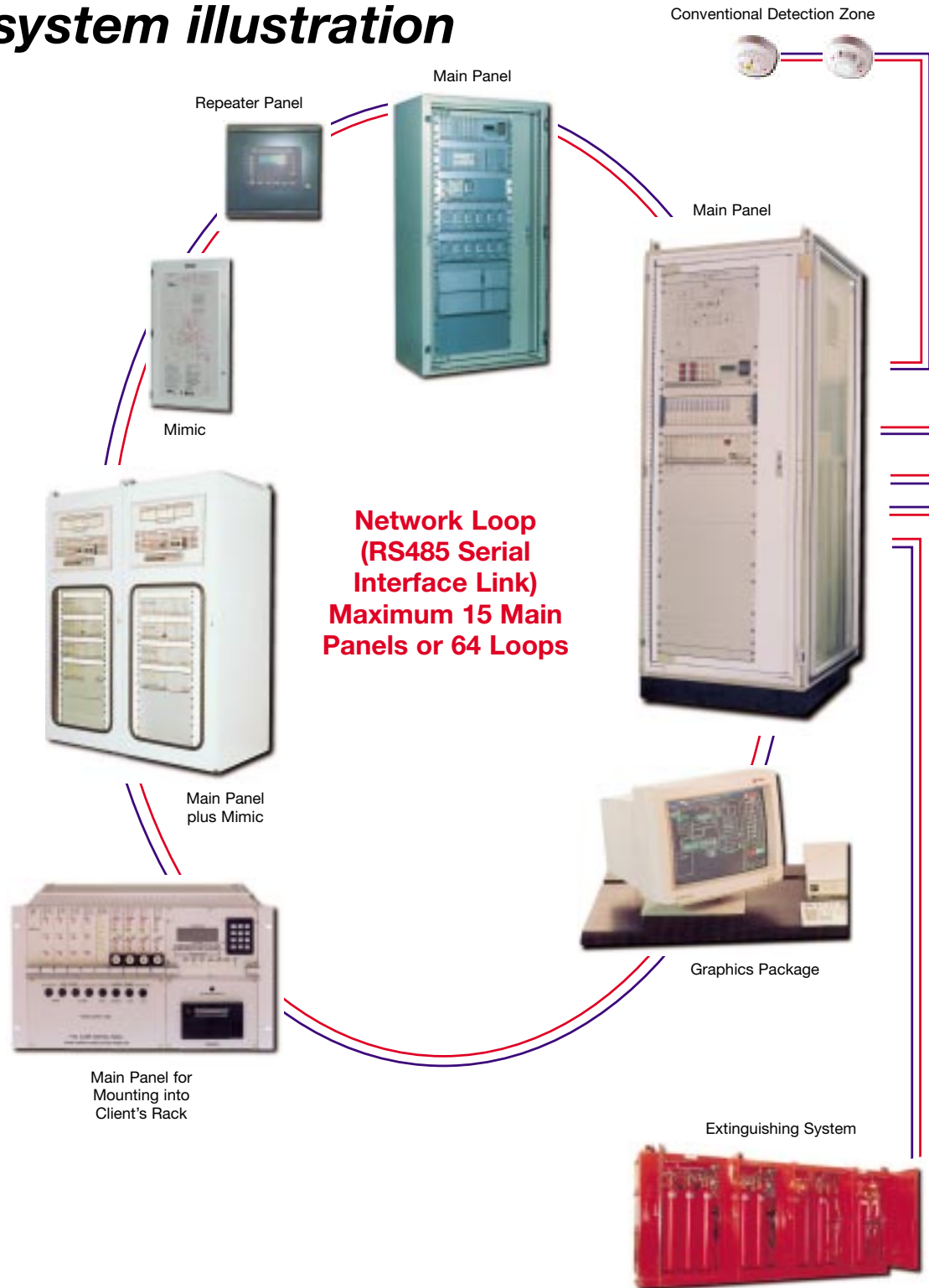
19 inch rack panels

panel features

- *Completely modular*
- *Totally flexible*
- *Can be analogue and/or conventional*
- *Very powerful processing ability*
- *Purpose built*
- *Normally mounted in swing frame enclosure*
- *3U high modules*
- *Networkable with other R3 panels, graphics and network repeaters*
- *MODBUS and BMS system compatibility*
- *Lloyds approved to Marine Standard ENV 1&2*
- *Lloyds approved to BS5839 part 4*
- *Meets EMC & LVD Directives*



typical R3 system illustration

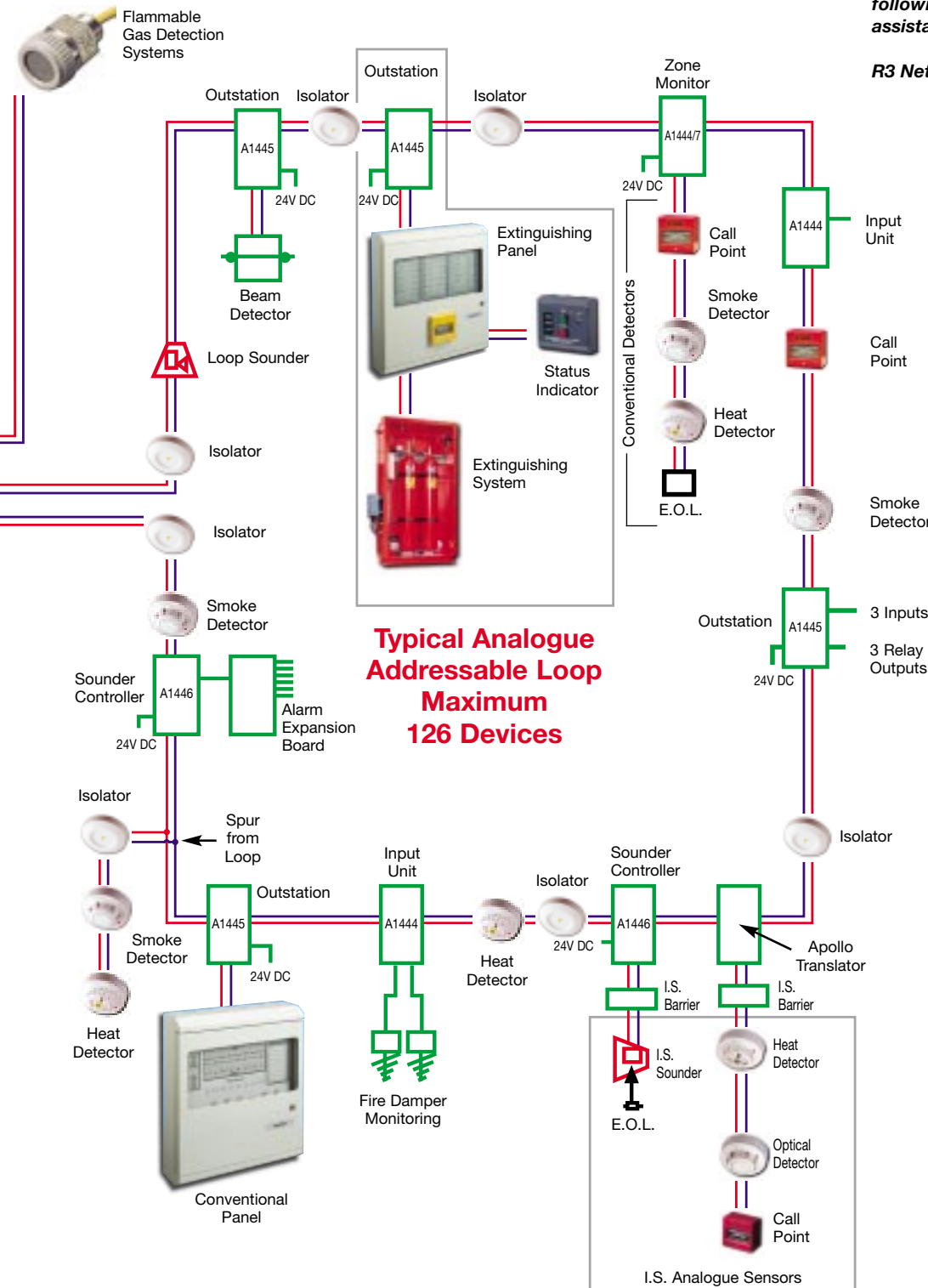


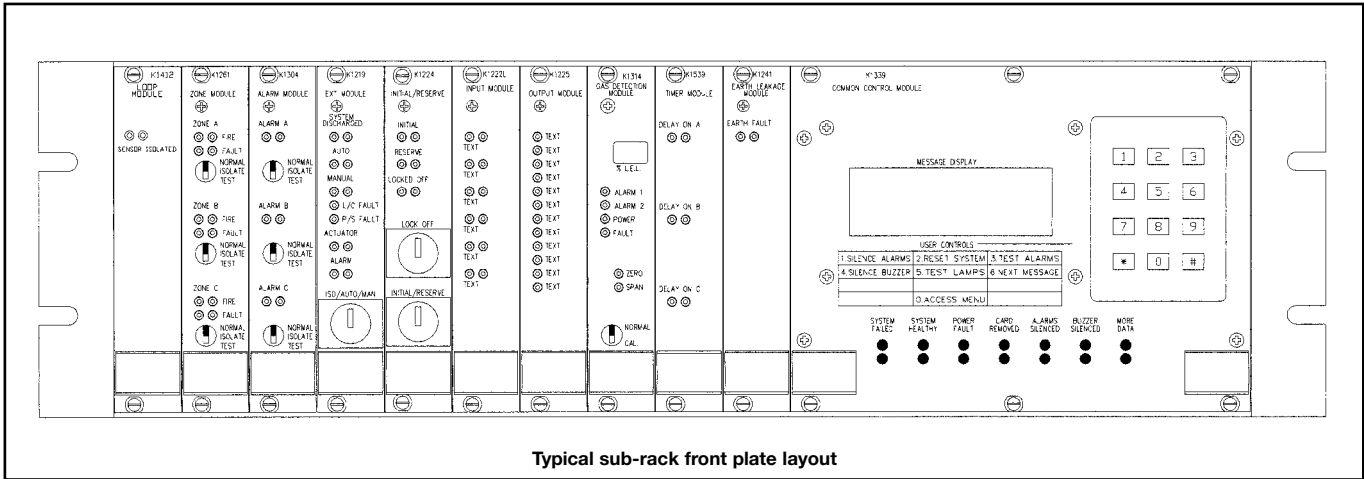
the R3 rack network

- Network up to 15 active nodes and 17 passive nodes
- Nodes may be a combination of **R3** racks, network repeaters and alarm manager graphic systems
- Conventional panels, extinguishant panels and other equipment may be connected via network repeaters
- "All talk, selective listen" means no need for a master panel, thus avoiding a single point of network failure
- Event and cause/effect programming across the **R3** network.
- RS485 datacomms

IMPORTANT NOTE: This information is for guidance only. Always refer to the following documentation for technical assistance during network design:

R3 Network Application Guide





Typical sub-rack front plate layout

technical description

The **R3** fire detection and extinguishing control system comprises a number of different plug-in modules, each of which is dedicated to a particular function within the complete control panel. The modules currently available cover all the possible requirements of fire detection, alarm signaling, extinguishing, data transmission and plant control in any building and in almost any ambient conditions.

The **R3** system also has the capability to be networked to other **R3** systems, repeater and mimic panels. It can also communicate with the Control Equipment graphic communications package.

The **R3** system is based on a standard 19-inch rack frame, each carrying a system backplane and the required function modules. The system is supremely flexible, to the point that during manufacture or after installation and commissioning, modules may be added or removed without major modifications.

Cabinet sizes are infinitely flexible, based on the constraints of the 19 inch rack. Generally they vary from 380mm high x 800mm wide x 369mm deep for a single rack system to 2000mm high x 800mm wide x 600mm deep for a system containing 10 racks.

Module Ref	Module Type	Module Description
K1321	Conventional Common Control module	Contains user, engineers' controls and system logic configurations for conventional systems only
K1339	Analogue Common Control module	As above except for conventional and analogue systems
K1261	Conventional Zone module	Provides 3 detection zones
K1412	Analogue Addressable Loop module	For use with up to 126 Apollo XP95 devices and CEL outstations
K1314	Flammable Gas Detection module	With display & outputs for lower & upper LEL
K1219	Extinguishing module	For fixed extinguishant systems
K1304	Alarm module	Provides 3 x 2A alarm circuits
K1205	Relay module	Provides 3 x 1A changeover contacts
K1222	Input module	Provides 6 x open inputs
K1222L	Input module, with indications	As above except with additional 6 x LED indications
K1222-1K	Input module, with 1 keyswitch	As K1222 except with 1 keyswitch
K1222-2K	Input module, with 2 keyswitches	As K1222 except with 2 x keyswitches
K1225	Output module	Provides 12 x open collector outputs
K1225L	Output module, with indications	As above except with additional 12 x LED indications
K1316	Normally Energised Output module	As K1225 except normally energised (fail safe)
K1316L	Normally Energised Output module, with indications	As K1316 except with LED indications
K1525	Annunciator Driver module	Provides driving capability for annunciators or mimics
K1525L	Annunciator Driver module, with indications	As above except with additional LED indications
K1539	Timer module - 3 timers	Provides timed delay functions
K1224	Initial/Reserve Changeover module	Keyswitch selection of initial or reserve extinguishant options
K1241	Earth Leakage Detection module	Detects positive and negative earth leakage on both panel and field wiring