

CPR Fire Station

Camborne, Pool & Redruth – Tolvaddon, Hayle, Cornwall.



History

The New purpose built headquarters in Tolvaddon recently completed will provide 24 hour cover for the Camborne, Pool and Redruth area. The station houses three fire engines, as well as a rescue tender. The new larger base is shared with ambulance and police services and will replace two stations which were more than 50 years old. The site includes two new buildings with up to 84 parking spaces for staff and public visitors. The 2.15 hectare 'Tolvaddon' complex is a former industrial site contaminated with arsenic and near the Red River.



Requirement

As part of the Fire Station Announcement requirements, a Public Address System was specified to communicate to the staff throughout the entire station. West Communications Ltd recommended a complete public address and hearing loop system, powered by InterM and SigNET.

Solution

The Tolvaddon built PA Rack features an InterM's PAM340 Modular Mixer Amplifier, allowing for multiple source and level control to each of the individual zones throughout the fire station alongside the simple RM-05A Multi-zone Microphone with its Pre-announcement chime can be used for Individual Channel Selection or all-call.

The loudspeakers specified were chosen to the space and ambient noise levels of the different areas of the building. IC Audio Ceiling Speakers (CS20) were used throughout to provide a wider-frequency and better tone of audio reproduction. The CS20 Ceiling Speaker is a high quality, fast-fit with premium grade drivers for impressive acoustic performance and long-term reliability with metal construction.

The Hearing Loop System selected from the Professional Range (PDA200E Wall Mounting Induction Loop Amplifier) of one of the market leaders in the industry 'SigNET', comes with an adjustable level control for all inputs, 2 Microphone inputs, balanced/unbalanced line and mic's, alert tone switch (for doorbells and fire alarms) and 100v line (for the connection of PA System audio feeds). The amplifiers state-of-the-art current drive audio processing circuitry includes an automatic compressor/limiter which maintains the loop signal with a small dynamic range to improve intelligibility. Manual adjustments can also be made using the internal tamper resistant drive, level and tone controls, allowing the system to be tailored to suit the exact requirements of any room.