

Introduction

CIE-Group – one of the UK's most experienced suppliers of high quality Commercial Sound and AV products – are the exclusive UK supply partner for **Communication Technology** and their complete range of professional paging, zoning and microphone technology products.



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This UK-manufactured specialist microphone range provides simple single-zone desk paging microphones, to vandal-resistant units, to the most advanced store-and-forward multi-zone paging systems. In addition to the full range of stock products, CIE-Group and Communication Technology work in partnership with many professional installers and systems integrators to provide bespoke solutions to meet the specific requirements of more complex PA systems.

Within many leading supermarkets, stores, airports, bus and train terminals, sports and education applications, you will find high quality, reliable microphone solutions bearing the Communication Technology name.



Paging, Zoning & Microphone Technology



www.cie-group.com



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Exclusive UK Supply Partners

CIE-Group are the exclusive UK supply partners for the complete **Communication Technology** range of professional paging, zoning and microphone technology products.

Key to CIE-Group's success is our absolute commitment to both the quality and service to our customers; reflected by our team of pre- and post-sales technical advisors, UK-based stock holding, service and repair and bespoke product development capabilities.

The close relationship between Communication Technology, CIE-Group and our customers also ensures direct access to an expert team of sales, training and technical advisors, as well as our showroom and demonstration facilities...



Engineering

CIE-Group's technical and after-sales service department provides system advice, service, repair and remanufacture facilities to ensure a unique UK-based, fast and efficient resource.

Demonstrations

Our dedicated team of sales and technical support staff are also on hand to provide full product and user training either at our own facilities or on-site.

Showroom

Our showroom, centrally located in Nottingham, gives customers and clients immediate access to more than 200 of our key products.



○ Loudspeaker Circuit Volume Controls

A range of 50/70/100v line remote volume controls for loads of 25, 100 and 300W with provision for local volume restoration for paging announcements by built-in 24v relay override.

Each control has been designed to provide excellent frequency response with minimum quiescent power loss, using uniquely wound auto-transformers for maximum efficiency.

LVC025/VA and LVC100/VA models include all the same features of the standard LVC025 and LVC100 products; the main difference is that the override relay is energised when the Volume Control is in normal use and de-energises in fail/safe override condition, to provide full volume restoration for emergency broadcasts.

Both controls are suitable for low frequency and DC line surveillance monitoring systems, normally associated with Voice Alarm facilities and are site adjusted.

Features:

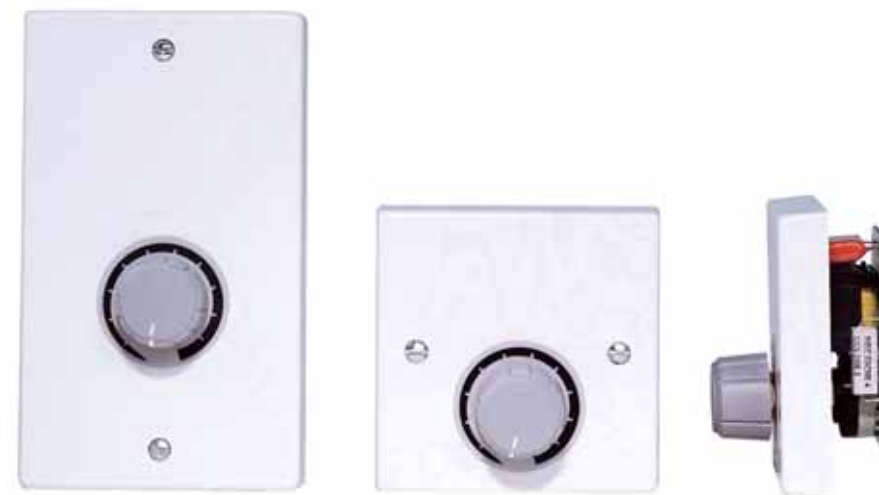
- A rugged, stepped, user control
- Collet fixed knobs
- Permanent push-on wiring connectors conveniently at one end of the PC board
- Easily adjustable, colour coded, on-board header receptacles for option selection; 300W excluded, use terminal selection
- Detailed diagrammatic instructions make preparation and installation easy
- Also suitable, by 'on-board' option selection, for three wire amplifier sourced paging override systems, TRI-WIRE
- LVC025 and LVC100 volume controls are fitted to ivory ABS UK switchplates
- Various metal front panel options are available at extra cost

TVC25, a 25W line volume control, has the advantage of being low profile, suitable for backboxes of at least 20mm internal depth when used with a standard single UK switchplate supplied.

TVC25 may be operated in paging override mode, full volume restoration, by interfacing with TRI-WIRE, a Communication Technology product functioning between host amplifier output and loudspeakers. Up to 10 TVC25s can be attached to 1 TRI-WIRE.

Order Codes:

LVC025/VA:	25W, including UK front panel, single switchplate - VA compliant
LVC025:	25W, including UK front panel, single switchplate
LVC025/PC:	25W, 'bare bones' PC only
LVC100/VA:	100W, including UK front panel, double switchplate - VA compliant
LVC100:	100W, including UK front panel, single switchplate
LVC100/PC:	100W, 'bare bones' PC only
LVC300:	300W, including front panel to mate with MK 5268 ALM flush backbox
LVC300/PC:	300W, 'bare bones' chassis only
LVC300/SM:	300W, mounted in surface fixing backbox



Specifications:

Model:	LVC025:	LVC100:	LVC300:
Rated Input	25W, 100v	100W, 100v	300W, 100v
Maximum Load	30W	120W	330W
Maximum Input Voltage	100v, RMS 140v Peak (intended for use on 50/70/100v line distribution systems)		
Minimum Nominal Input Voltage	50v	50v	50v
Control Attenuation	60dB, in 12 steps, including 'Off'		
Paging Attenuation	12dB, in 4 steps (relay override function only)		-
Operating Frequency Range	150Hz through 15KHz	150Hz through 15KHz	40Hz through 15KHz
Override Relay: Consumption	400mW	400mW	900mW
Termination	Push-on screw terminations, fixing to PCB header pins. max cable size 2.5mm ² , stripping length 6mm		Screw termination: max cable size 4mm ²
Finish	Ivory plate with grey rotary switch		
Dimensions	87(W) x 87(H) x 38(D)* mm	87(W) x 145(H) x 38(D)* mm	122(W) x 178(H) x 84(D)* mm

*minimum required for backbox

◦ TW1010 & TVC25 Volume Controls

TRI-WIRE TW1010 is an interface between the amplifier and loudspeaker(s) to allow low cost overall paging override and volume restoration, where a number of individual loudspeaker line volume controls are to be installed.

Without TRI-WIRE, each volume control would need to be fitted with an override relay requiring centrally sourced powering, involving 4 wire cabling. As the name suggests, the TRI-WIRE system uses only three wires linked to the volume controls, enabling a lower cost of installation.

A special TRI-WIRE line volume control, TVC25 is recommended for use with this system, though any of the Communication Technology range is compatible.

TW1010 has the advantage of being low profile and suitable for all back boxes of at least 20mm depth, supplied standard with an ivory white plastic front panel. For installation in close proximity to the host amplifier.

Features:

- No remote relay powering necessary
- Lower cost of each volume control
- Compatibility with all types of paging access system, including VOX gates, passive or electronic access
- Requires only a few milliamps, can be powered from a 24v plug top supply, or the host amplifier
- TW1010 can easily be installed in a UK double switchplate back box or within the host amplifier
- May also be used to terminate all amplifier and loudspeaker cabling
- Auxiliary outputs for speech (paging) only, music only in addition to normal outputs are provided

Order Codes:

TW1010:	TRI-WIRE override interface complete with UK switchplate
TVC25:	25W TRI-WIRE override volume control (May also be used without TW1010 in applications when a 'non-override' volume control is required)



Specifications:

Model:	TW1010:
Supply Voltage	18 ~ 35v negative ground, 24v nominal
Supply Current	20mA on override
System Function	By direct 'PRESS TO TALK' connection on paging microphone or by grounded 24v access system
Volume Restoration Relay: Contacts	Silver nickel 2 Amp. Maximum switching voltage 150v AC
Maximum Input Power	120W RMS, 50, 70 or 100v line
Dimensions (face plate)	145(W) x 85(H) x 15(D) mm (2 gang plate) requires at least 25mm depth back box/enclosure

Model:	TVC25:
Rated Input	25W
Maximum Load	30W
Maximum Input Voltage	100v RMS 140v Peak
Control Attenuation	60dB in 12 steps, including 'Off'
Operating Frequency Range	150Hz ~ 15KHz
Operating in Systems	Attenuation recommended below 150Hz
Terminations	Screw terminals; maximum cable size 3.5mm ²
Dimensions	87(H) x 87(W) x 38(D) mm When mounted to supplied UK single gang switchplate, depth behind panel is 20mm

PLVC6 Series Source Selectors

The PLVC6 Series provides the ability to route different source materials/signals via a 6 position rotary control switch plus rotary stepped volume control for maximum flexibility.

Available input/output signal options are 100/70/50v @ 10W maximum load, 600 Ω line level maximum output +2dBm, 8 Ω loudspeaker level @ 4W maximum load and 600 Ω load 60mW ~ 250mW maximum.

These are supplied in a 'bare bones' format ready to build into customers' OEM or special-build consoles and control panel applications. Alternatively, models can be supplied ready finished, fitted to a double-gang UK faceplate. Further options include an emergency Override facility, designating one of the channels as priority and custom screened artwork (at an extra cost).

Features:

- 4 Source routing selectors for programme selection, source monitoring and routing, etc
- Fits standard UK double-gang switchplate
- 12 Position, dB graded volume control
- Dedicated override channel
- 6 x Source inputs



- Model shown fitted to 2 gang plate (not standard)

Order Codes:

PLVC6-10LL:	6-way programme selector c/w 10W 50/70/100v volume control
PLVC6-04LS:	6-way programme selector c/w 4W 8 Ω volume control
PLVC6-600LL:	6-way programme selector c/w 600 Ω line output volume control
PLVC6-HP:	6-way programme selector c/w 600 Ω line output 250mW/125mW/60mW

Specifications:

Model:	PLVC6-10LL:	PLVC6-04LS:	PLVC6-600LL:	PLVC6-HP:
Input	50/70/100v line	50/70/100v line	600 Ω line	50/70/100v line
Output	50/70/100v line	8 Ω	600 Ω line	600 Ω line
Maximum Load	10W	4W	+20dBm	250mW
Attenuation	(12 positions) 0 ~ -60dB and 'Off'			
Override Relay	24v DC, nominal 20mA			
Operating Range	75% ~ 120%			
Terminations	Plug-on screw terminal			
Dimensions (PCB only)	50(W) x 100(H) x 44(D) mm			



○ Buddy Desk Paging Microphones

These simple yet robust paging microphones are available in single and 2-zone versions. Featuring a gooseneck mounted microphone well known for its voice clarity in almost any operating environment.

Ideal for applications such as shops, offices, garages, showrooms, transport termini; wherever there is a need for an elegant, yet strong paging microphone able to withstand heavy duty usage.

Each Buddy microphone has a 2.5m lead and requires only the fitting of an interface connector to suit the host amplifier.

Features:

- Suitable for passive or electronic access amplifiers
- Microphone incorporates speech blast screen
- Soft-touch 'Press-to-Talk' button/s, with minimal noise transfer
- All steel construction, weighted base, finished in scratch and chip resistant powder coat paint
- Anti-slip feet
- Fitted with a moving coil microphone capsule, perfect for most amplifier input sensitivities. For less sensitive amplifiers an electret version is available; requires DC powering from host amplifier
- 2.5m lead (free end)

Specifications:

Model:	BUD100 / BUD200:	BUD100E / BUD200E:
Microphone	Moving Coil	Electret
Sensitivity	Suitable for all amplifiers with at least 500uV (0.5mV) sensitivity	Suitable for all amplifiers with at least 1mV sensitivity
Impedance	600Ω	600Ω
Characteristics	Polar diagram approximates to cardioid presence lift at 3KHz	Omni-directional
Frequency Response	± 6dB, 100Hz ~ 12KHz	± 6dB, 100Hz ~ 12KHz
Polarising Voltage	-	At least 4.5~9v max applied between polarised lead & ground
Polarising Current	-	400uA
Signal-to-Noise	-	Better than 40dB
Press-to-Talk	'Soft touch', momentary action, push button (2-on-2 zone)	'Soft touch', momentary action, push button (2-on-2 zone)
Cabling Supplied	2.5m screened mic pair + access pair/s	2.5m screened mic pair + access pair/s
Finish	Desk top: pearl white powder coat Desk base: satin black powder coat Gooseneck & mic: matt black	Desk top: pearl white powder coat Desk base: satin black powder coat Gooseneck & mic: matt black
Dimensions	Base: 110(W) x 40(max H) x 140(D) mm Gooseneck length to capsule: 260mm	Base: 110(W) x 40(max H) x 140(D) mm Gooseneck length to capsule: 260mm
Weight	700g	700g



Order Codes:

BUD100:	Single-zone, moving coil microphone
BUD100/E:	Single-zone, electret microphone
BUD200:	Two-zone, moving coil microphone
BUD200/E:	Two-zone, electret microphone

WP600 Wall-Mounted Microphone

The WP600 is a flush mounting microphone designed for applications in the retail and industrial sectors, providing a wall-mounting paging point for till positions, security locations and building access points, etc.

Generally for indoor use, the unit has a shock-mounted microphone capsule positioned behind a 3mm thick, 2 gang aluminium panel. The capsule is protected by a pin-proof screen to stop abuse and to ensure the unit is in working order when needed.

Connections to the unit are made via push-fit screw terminals and give the option of NO and NC operations for both the microphone output and switched voltage free contacts.

Features:

- Rugged aluminium faceplate
- Security mounting screws
- Shock-mounted capsule
- Selectable mic output (NO/NC)
- Selectable switched output (NO/NC)



Order Codes:

WP600:	Wall-mounted microphone
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Specifications:

Model:	WP600:
Product IP Rating	IP62
Microphone Capsule	Dynamic
Frequency Response	± 6dB 300 ~ 3500KHz
Impedance	600Ω (2400Ω special order)
Output Level	-57dB @ 1KHz
Finish	Basalt grey, powder coat
Dimensions	90(W) x 150(H) mm
Minimum Backbox Depth	40mm

VP892 Vandal-Proof Microphone

The VP892 is a vandal-proof microphone with push switch and 'active' LED mounted on a UK double-gang switchplate designed to fit on backboxes of at least 40mm depth.

The switchplate is stainless steel with integral microphone grille designed for close-talk use; the entire assembly is showerproof to IP67 and designed for use in public places or in a manufacturing process where vandal resistance is judged to be appropriate or heavy-handed use an expectation.

Features:

- 'Push-to-Talk' switch and 'active' LED
- Rugged stainless steel faceplate
- IP67-rated
- 'Pin-proof' microphone capsule



Order Codes:

VP892/600:	600Ω impedance vandal-proof microphone
VP892/2400:	2400Ω impedance vandal-proof microphone

Specifications:

Model:	VP892:
Product IP Rating	IP64
Frequency Response	± 6dB 300Hz ~ 3.5KHz
Impedance	600Ω (2400Ω special order)
Output Level	-57dB @ 1KHz
Finish	Stainless steel
Dimensions	86(W) x 146(H) mm
Minimum Backbox Depth	30mm

Pro Range Desk Paging Microphones

A range of pre-amplified paging microphones designed to meet the highest standards, where voice clarity is an essential requirement regardless of operating environment. Aesthetic, elegant design is the first impression obtained from this high quality desk paging microphone series with fully flexible gooseneck. Available in single and two zone format.

Features:

- Pre-announcement 'gong'; switch selectable, this enables individual paging microphones within a system to prelude announcements with a simple, but attention grabbing, gong sound
- Paging sound level indicator, comprising a VU scaled composite 3 LED array
- Provision for plug-in digital sound processing (DSP) technology for automatic background noise level reduction (DSP350)
- 'Soft gate', noise-free, microphone audio activation and closure
- 'Press-to-Talk' button/s physically protected against accidental use
- 'Speak now' or system in use LEDs, installer option
- Electronic or VOX access receptive to match host amplifier facilities
- Provision for local or remote powering
- Long line 0dBm 600Ω output, optionally available at 'microphone' level by on-board switch selection
- Basalt grey finish, satin silver base, anti-slip feet
- The standard capsule is moving coil electret, with noise-cancelling microphone capsule options available by special order
- Supplied with WC15W easy to connect wall connectors

Order Codes:

DPM102B:	Single-zone with 600Ω line pre-amplifier with proximity auto bass cut and limiter
DPM202B:	Two-zone with 600Ω line pre-amplifier with proximity auto bass cut and limiter
DSP350:	Digital signal processor; increases the difference between unwanted background noise and speech announcements, even where this noise is at the same level as the announcement; plugs into DPM102/202, preset noise attenuation of up to 30dB



Eliminate noise with DSP350 technology

NEW Digital Signal Processing (DSP) technology is used to electronically remove unwanted background noise from speech which enables announcements to be more easily understood. The technology is self-adapting to changing noise environment, no 'training' of the noise filter is required.

Installers can adjust the level of noise suppression to system requirements; the residual background noise still sounds natural, but up to 30dB lower.



WC15W Wall Connection Plate

Specifications:

Model:	DPM Series:
Output Level	Switchable 0dBm, 600Ω source or -20dBm, 60Ω source
Matching Impedance	600Ω both @ microphone level and amplified line level option
Frequency Response	Unlimited: ±3dB 100Hz, bass-cut on limit variable with voice proximity to -18dB @ 100Hz, proximity level limiting max 26dB
Powering	24v DC; normal or phantom powering @ 100mA max when using DSP350, 20mA without. 15 way 'D' interface for easy system integration and facility selection. A 1.8m lead is supplied, free-end unterminated, stripped and tinned, for fitting an installation interface connector appropriate to the facilities required.
Dimensions	Base: 130(W) x 50(H) x 170(D) mm Gooseneck length to capsule: 290mm

◦ DPM102B/FM & DPM202B/FM Wall-mount Paging Microphones

Developed from the standard DPM102B/202B Pro-Series, these microphones offer the same functionality but in a flush mounting format.

Supplied with a recessed backbox (MK LN5268) as standard, the microphone panel is attached via tamper-proof security type screws.

The heavy-duty, 3mm powder-coated front plate is designed to be robust and withstand day-to-day use in retail, transport and industrial applications. The 130mm flexible gooseneck, whilst shorter than the standard unit fitted to the DPM102B/202B, allows the microphone to be firmly positioned for the user without sagging or movement.

Features:

- Pre-announcement 'gong'; switch selectable, this enables individual paging microphones within a system to prelude announcements with a simple, but attention grabbing, gong sound
- Paging sound level indicator, comprising a VU scaled composite 3 LED array
- Provision for plug-in digital sound processing (DSP) technology for automatic background noise level reduction (DSP350)
- 'Soft gate', noise-free microphone audio activation and closure
- 'Press-to-Talk' button/s physically protected against accidental use
- 'Speak now' or system-in-use LEDs: installer option
- Electronic or VOX access receptive to match host amplifier facilities
- Provision for local or remote powering
- Long line 0dBm 600Ω output, optionally available at 'microphone' level by on-board switch selection



Order Codes:

DPM102B/FM:	Single-zone 600Ω line pre-amplifier with proximity auto bass cut and limiter
DPM202B/FM:	Two-zone 600Ω line pre-amplifier with proximity auto bass cut and limiter

Specifications:

Model:	DPM102B/FM~DPM202B/FM:
Output Level	Switchable 0dBm, 600Ω source or -20dBm, 60Ω source
Matching Impedance	600Ω both @ microphone level and amplified line level option
Frequency Response	Unlimited: ± 3 dB 100Hz, bass cut on limit variable with voice proximity to -18dB @ 100Hz, proximity level limiting max 26dB
Powering	24v DC; normal or phantom powering @ 100mA max when using DSP350, 20mA without
Dimensions	Base: 140(W) x 202(H) mm (Backbox 114(W) x 175(H) mm) Gooseneck length to capsule: 130mm



FM280 Dynamic Fist Microphone

A rugged fist microphone designed for use in high quality close-talk mobile or fixed applications; ideal for noisy environments such as factories, airside at airports and for two-way communications in taxicabs, buses, helicopters, construction sites and fire & rescue vehicles.

Features:

- The dynamic microphone capsule is shock-mounted within the housing, constructed from virtually unbreakable ABS plastics, contoured for safe, convenient handling
- The 'Press-to-Talk' grip switch, engineered for heavy use, operates 2 single-pole contact pairs; one pair mutes the microphone capsule when not in use, the other can be used as 'dry' contacts for system access or signalling
- 4 core heavy-duty coiled lead to free end
- Spring-mounted clip for easy storage



Order Codes:

FM280:	Dynamic fist microphone
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Specifications:

Model:	FM280:
Microphone Housing	ABS plastic moulding
Capsule	Dynamic omni-directional
Sensitivity	-75dB $\pm$ 3dB @ 1KHz
Impedance	200 Ω
Frequency Response	$\pm$ 6dB 300Hz ~ 6KHz
PTT Switch	2 Switch pairs: microphone - red/white access - blue/black
Operating Temperature	0°C ~ +55°C
Weight	200g
Dimensions	45(W) x 100(H) x 45(D) mm

Exeter Airport



Stephan Ayres, Communication Manager of Exeter Airport said:

'The new installation allows the airport's passenger services and security departments to make clear announcements to the travelling public in various airport areas from five locations, but as the airport grows the system can be expanded to meet our challenging requirements. The equipment has worked very well in a demanding environment and Exeter Airport is thoroughly satisfied with the results.'

National Express



Gavin Harris, Arqiva's Regional Operations Manager (Midlands) said:

'Heavy Duty Gooseneck microphones from Communication Technology operate in our Private Mobile Network on vehicles operated by National Express, West Midlands. We install these systems and they more than satisfy the need for rugged, reliable, performance.'

PRE600P Microphone-to-Line Pre-Amplifier

The PRE600P provides the ability to convert a standard microphone output to a variable line level output, especially useful if the microphone is located a distance from the host equipment.

Features:

- PRE600P can easily be retrofitted to a system to provide a solution to overcome low signal problems
- Housed in a robust metal housing which can be wall or desk mounted, the unit may be powered by 24v DC via the host equipment or local plug top power supply
- An internal bass cut and speech level limiter provides a stable output to the amplifier system whilst all connections are made via a 15W 'D'-type connector



Order Codes:

PRE600P:	Microphone-to-line pre-amplifier
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Specifications:

Model:	PRE600P:
Input Sensitivity	Better than 500µV, suitable for 200/600Ω microphone
Output Level	Switchable 0dBm, 600Ω sources or -20dBm, 60Ω source
Powering	24v DC, switch selectable for 'normal' or 'phantom' power sourcing, normal powering via in-built co-axial 2.5mm DC socket or on 15 way 'D'
Connectivity	15 Way male 'D' connector
Dimensions	130(W) x 168(D) x 50(H) mm



◦ DPM Series Multizone, Multipoint Paging Systems

The new Pro-Range 5 and 10 zone self-cancelling paging points operate exclusively with the rack-mounted ZRU010 relay interface and central logic processor for up to 10 zones.

Whilst most system designers will switch zones of loudspeakers, this system is sufficiently versatile to operate between pre-amplifiers, 600 Ω signal sources or with individual zone amplifiers.

Each paging point incorporates audio compression; an in-built pre-announcement 'gong' is a link-selectable option. Communication and digital signalling between the ZRU010 central processor and each paging point uses standard CAT5 cabling - significantly saving on expensive cable installations!

Features:

- The system provides fully automatic 'All-Call'
- Pre-selection of zones prior to paging, self-cancelling after use
- Whilst waiting for paging access to the system, users can pre-select (reserve) their zones to be paged
- One paging point can be designated to have overall priority in the system
- Up to 8 paging points can comprise a multizone system (mixed 5 & 10 zones)
- 'Press-to-Talk'/'All-Call': momentary action button with LED indicating 'All-Call' or system occupied
- Zone selection: momentary action, electronic locking, buttons with individual LED to confirm selection acceptance
- Paging point output: utilises CAT5 cabling technology and is suitable for cabling lengths of up to 300m, unshielded

Order Codes:

ZRU010/CAT5:	1U rack mounting relay/zone processor
DPM105/CAT5:	Self-cancelling 5-zone paging point
DPM110/CAT5:	Self-cancelling 10-zone paging point



- Now using CAT5 connectivity



Specifications:

Model:	DPM105/CAT5:	DPM110/CAT5:
Press-to-Talk/All-Call	Momentary action button	Momentary action button
Zone Selection	Momentary action, electronic locking buttons with individual confirmation LEDs	Momentary action, electronic locking buttons with individual confirmation LEDs
Paging Point Output	0dBm, 600 Ω , balanced, with pre-announcement gong provision	0dBm, 600 Ω , balanced, with pre-announcement gong provision
Zone Relay Load	Will accept the output of a 250W amplifier, line voltage up to 100v or 600 Ω line level switching	Will accept the output of a 250W amplifier, line voltage up to 100v or 600 Ω line level switching
Power Requirement	24v DC ~ 30v 150mA	24v DC ~ 30v 150mA
Cabling Requirements	CAT5, 4 pair unshielded	CAT5, 4 pair unshielded
Finish	Microphone body: light grey Microphone top: basalt grey Microphone and Gooseneck: matt black	Microphone body: light grey Microphone top: basalt grey Microphone and Gooseneck: matt black
Dimensions	DPM105: 130(W) x 168(H) x 50(D) mm ZRU010: 483(W) x 170(H) x 43(D) mm	DPM110: 240(W) x 168(H) x 50(D) mm ZRU010: 483(W) x 170(H) x 43(D) mm
Weight	950g	1.4kg

◦ DPS400 Series Store & Forward Paging Microphones

Store 'n' Forward technology is a real step forward for paging in busy environments or for repeated broadcasting announcements, for example, in food stores, transport termini and departure gates.

Features:

- Operating as a normal 'live' paging microphone, the paging announcement is made and stored for broadcast
- The delay between paging completion and broadcast is internally pre-set on installation to 5, 15, 30 or 60 seconds
- Announcements may be pre-set to be automatically repeated 1, 2, 3 or 4 times
- Announcements can be up to 2 minutes in duration
- An announcement can be manually cancelled at any time
- An internal chime can be selected to pre-announce any messages, alternatively any pre-announcement chimes included in the host system can be triggered by DPS402
- DPS402 works with electronic or VOX accessed amplifiers
- Supplied with WC15W easy to connect wall connection plate

DPS400: Single Zone Paging Microphone with Multiple Stored Announcement Facility

This is identical in function to the DPS402 except that a facility to record and store up to 3 announcements that require individual or collective timed repeat is incorporated. Examples would be to advertise 'special offers' in stores and supermarkets or to announce delay in flight departure at an airport.

- Timed repeats - the user can select a repeat time of 5, 15, 30 or 45 minutes between replays or can be remotely triggered at any time
- Simple to operate - to record an announcement for repeated use, the user simply selects 'Enable' mode and proceeds with the announcement, which can be up to 1 minute in duration and manually cancelled at any time
- Supplied with WC15W easy to connect wall connection plate

Order Codes:

DPS400:	Store & Forward paging microphone with multiple stored announcement facilities
DPS402:	Store & Forward paging microphone with storage for up to 3 announcements/adverts



• WC15W Wall Connection Plate

Specifications:

Model:	DPS400:	DPS402:
Audio Output	775mV, 600Ω source 5mV 600Ω source	775mV, 600Ω source 5mV 600Ω source
DC Powering	24v DC @ 100mA	24v DC @ 100mA
Interface	15 way 'D' male	15 way 'D' male
Interface DC Supply	2.5mm DC power socket, also available on 15 way connector	2.5mm DC power socket, also available on 15 way connector
Frequency Response	200Hz ~ 8KHz	200Hz ~ 8KHz
Access Out Port	Dry contact closure when DPS wishes to access host system	Dry contact closure when DPS wishes to access host system
Access In Port	Remote Advert start	-
Busy In Port	If activated will not allow DPS to access host system	If activated will not allow DPS to access host system
Pause for Chime Report	4 seconds to allow for host system chime; selectable option to in-built chime	4 seconds to allow for host system chime; selectable option to in-built chime
Activity Display Port	By 'hi-bright' LEDs	By 'hi-bright' LEDs
Facilities	Storage for up to 3 announcements/adverts each of up to 60 secs duration, these may be individually played, or as a sequenced group, at intervals of 5, 15, 30 or 45 mins, front panel selected	Store'n'Forward of a paging announcement up to 2 mins duration. 'Repeat Frequency': 1,2,3,4 times 'Repeat Delay': 5, 15, 30, 60 secs 'Preset on Installation'
Desk Top	Basalt grey powder coat	Basalt grey powder coat
Desk Base	Satin black powder coat with anti-slip feet	Satin black powder coat with anti-slip feet
Gooseneck/Microphone	Matt black	Matt black
Base Dimensions	130(W) x 50(H) x 170(D) mm	130(W) x 50(H) x 170(D) mm
Weight	900g	900g

DM105/CT & DM110/CT Multi-zone Paging Microphones

A range of stylish multi-zone paging systems, manufactured exclusively for CIE-Group by Communication Technology. Incorporating 'soft-touch' zone selection, 'Press-to-Talk' and 'All-Call' switches to ensure no pops or bangs are heard when activated. LED indicators are provided to show the user which zone has been selected.

The elegant yet robust gooseneck allows the user to position the microphone in the optimum position for high quality speech reproduction. Soft plastic feet stop the units from slipping around the reception desk/counter surface when being used and 'key hole' slots are provided on the base to allow wall mounting. Designed to operate with conventional relay switch systems, both versions are supplied with 1.5m 15-way 'D' type-to-open end leads, making installation quick and simple.

Exclusively made for CIE-Group by Communication Technology.



Order Codes:

DM105/CT:	5 zone paging microphone
DM110/CT:	10 zone paging microphone

Specifications:

Model:	DM105/CT:	DM110/CT:
Output Sensitivity	Mic Level: 1mV Line Level: 500mV	Mic Level: 1mV Line Level: 500mV
Output Impedance	Mic Level: 60Ω Line Level: 600Ω	Mic Level: 60Ω Line Level: 600Ω
Characteristics	Polar diagram approx to cardioid, presence lift @ 3KHz	Polar diagram approx to cardioid, presence lift @ 3KHz
Frequency Response	± 6dB, 100Hz ~ 8KHz	± 6dB, 100Hz ~ 8KHz
'Press-to-Talk'/'All Call'	'Soft touch' momentary action push button	'Soft touch' momentary action push button
Zone Selection	'Soft touch' latching action	'Soft touch' latching action
Terminations	15 Way 'D' male to unterminated open end (1.5m)	15 Way 'D' male to unterminated open end (1.5m)
Dimensions	Base: 130(W) x 50(H) x 170(D) mm Gooseneck length to capsule: 260mm	Base: 130(W) x 50(H) x 170(D) mm Gooseneck length to capsule: 260mm
Weight	250g	350g
Finish	Desk top: grey Desk base: satin black powder coat Gooseneck & mic: matt black	Desk top: grey Desk base: satin black powder coat Gooseneck & mic: matt black

◦ F86 Series Heavy Duty Gooseneck Microphones

The F86 range of gooseneck mounted, omni-directional, noise-reducing microphones provide maximum versatility combined with ease of installation.

Microphones for mobile and fixed use are included in the range, together with various end-fittings, alternative gooseneck lengths and accessories. Used in taxis and public service vehicle installations, they are also widely used for marine and heavy industrial applications.

Features:

- Computer-aided head design/capsule matching is used to obtain the required frequency response and maximum signal-to-noise characteristics
- A new one-piece head assembly, combined with the locking of the gooseneck to the head and end-fittings, deters tampering and vandalism
- The rugged dynamic microphone capsule provides optimum clarity over the speech frequencies and is fully protected for use in high humidity environments
- A line pre-amplifier is incorporated in the optional MFPA base-mounting
- A 'Press-to-Talk' switch can be fitted between the head and the gooseneck, or at the gooseneck base

Order Codes:

F86/C0:	Dynamic gooseneck microphone, with head mounted PTT switch, 450mm
F86/15:	Dynamic gooseneck microphone, forward facing, 150mm
F86/30:	Dynamic gooseneck microphone, forward facing, 300mm
F86/45:	Dynamic gooseneck microphone, forward facing, 450mm
Units are available in 600Ω and 2400Ω and can be fitted with a series of base options below. Please state when ordering.	
•/UM:	Circular universal base
•/UB:	Block mounting base
•/MFPA:	Circular flange base with pre-amp
•/DB:	Round heavy duty desk base
•/PTT:	Single pole PTT switch, mounted at the top (/T) or base (/B) of the gooseneck



Specifications:

Model:	F86 Series:
Frequency Response	300Hz ~ 3.5KHz
Impedance	600 or 2400Ω
Output Level	-54dB @ 1KHz
Finish	Anodised black
Dimensions	Gooseneck length to capsule: 150, 300, 450mm
Finish	Black PVC covered

- F86/CO
- Developed for the retail sector - includes PTT switch mounted in the microphone head



◦ C98, C100 Series Gooseneck Microphones

A range of microphones designed for use where voice clarity is an essential requirement and offering both moving coil and electret capsules fitted to fully flexible or part flexible/rigid goosenecks.

Capsules are mounted in a computer-matched acoustic chamber fitted with an 'anti pop' blast screen. A stainless steel mesh protects the capsule from physical damage.

Moving coil capsule: With a polar diagram approximating to cardioid, this capsule has a significantly flat frequency response within speech range, with an added 'presence' lift at 3KHz.

Electret capsules: The polar diagram is unidirectional in characteristic and has a wide frequency response.

The mounting option for C98 and C100 are subject to additional cost and require the code suffix to be added to the order code:

/UMC - Circular universal mounting base; for right angled or parallel-with-surface mounting; 3 hole fixing to mounting surface.

/UBC - Block mounting base; providing 2 hole fixing to mounting surface and right angled or parallel-to-surface microphone assembly.

Other mounting accessories for XLR terminated microphones:

DT37 - XLR socket fitted to adjustable angle mount; for desk/lectern top fitting.

AV260 - Desk/lectern mounting anti-vibration mount; gooseneck XLR inserts firmly through centre, with compressing ring lock.

DB-XLR - XLR socket fitted to base with 'Press-to-Talk' switch and 5 pin XLR output.



• UMC Mount

• UBC Mount



• DT37 Angle Mount



• AV260 Anti-Vibration Mount

Order Codes:

C98:	Moving coil microphone fitted to fully flexible 295mm gooseneck terminated with M10 mounting base/nuts/washer
C98/XLR:	Moving coil microphone fitted to fully flexible 295mm gooseneck terminated with 3 pin XLR
C98LEC/XLR:	Moving coil microphone fitted to 300mm solid tube and 120mm fully flexible gooseneck terminated with 3 pin XLR
BS100:	'Superblast'™ close speech protection, fits over head of C98 microphone used on all Buddy/DPM products
C100:	Electret microphone, fitted to fully flexible 295mm gooseneck terminated with M10 mounting base/nuts/washer for use in induction loop environments
C100/XLR:	Electret microphone fitted to fully flexible 295mm gooseneck terminated 3 pin XLR
C100LEC/XLR:	Electret microphone fitted to 300mm solid tube and 120mm fully flexible gooseneck terminated with 3 pin XLR

Specifications:

Model:	C98:	C100:
Impedance @ 1KHz	300Ω floating	600Ω unbalanced
Polar Characteristic	Cardioid, approx	Unidirectional
Frequency Response	100Hz ~ 8KHz Presence lift @ 3KHz	100Hz ~ 15KHz
Polarising Voltage	-	1.5 ~ 9v DC from host amplifier or related source
Sensitivity	-72dB	-68dB

◦ C200 Series Boundary Microphones

Designed for use in applicable high quality sound systems - conferences, stage sound reinforcement, ambient noise monitoring, etc - where the advantage of flat surface-mounted boundary microphones can be utilised.

Boundary microphones can be directly mounted on most non-resonant, smooth, non-sound absorbent surfaces to provide the benefits described.

Features:

- C200 is available with or without 'On/Off' switching and is phantom powered from 24 ~ 48v DC
- An integral LED indicates connection
- Interface connection is via a miniature XLR wired to a 4.5m cable terminated with a male XLR
- Also available in white



Order Codes:

C200:	Without 'On/Off' switch (finished in black)
C200/PTT:	With latching 'On/Off' switch (finished in black)
C200W:	Without 'On/Off' switch (finished in white)
C200/PTT/W:	With latching 'On/Off' switch (finished in white)

Specifications:

Model:	C200 Series:
Transducer Type	Electret
Polar Pattern	Semi-cardioid
Frequency Response	50Hz ~ 18KHz ±3dB
Sensitivity	-35 ± 3dB @ 1KHz, @ 75dB SPL
Max SPL @ 1% Distortion	130dB
Impedance	600Ω nominal
Phantom Powering	12 ~ 48v
Dimensions	80(W) x 20(H) x 105(D) mm
Weight	150g

◦ VM100 Hand-held Microphone

Incorporating a superior anti-shock mount for the cardioid microphone capsule to ensure minimal handling and cable noise transfer, the VM100 is also physically well balanced for low hand stress.

Features:

- Suitable for all applications - speech, vocals, musical instruments - it features excellent transient response; providing clean, articulate sound
- Anti-pop protection and the ability to withstand rugged operational conditions is provided by the hardened steel outer mesh of the microphone head, lined internally with open cell foam and a fine steel mesh
- Incorporates a quiet 'On/Off' switch and a PVC pouch for protection during transport and storage



Order Codes:

VM100:	Hand-held microphone
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Specifications:

Model:	VM100:
Capsule	Moving Coil Dynamic
Polar Characteristic	Cardioid
Frequency Response	50Hz ~ 14KHz
Sensitivity	-55Hz ~ 14KHz
Output Impedance	600Ω nominal
Termination	3 PIN XLR detachable cable supplied
Dimensions	190(H) x 50(max Ø) mm
Weight	300g

◦ MIM020 Multizone Microphone Input Mainframe

Communication Technology's 'MIM020' Multiple Input Mainframe is designed to provide a simple solution to microphone priority control for up to 20 inputs.

The multiple input mainframe is ideal for applications in conference and meeting room environments. Other applications include medical practices where each doctor will need to call 'next patient' using the system on a first come, first served basis.

MPA050 input modules feature 5 inputs each, where one input can be given priority over all others within the mainframe. This facility will allow conference chairmen to override delegates or, in the event of an emergency, a safety officer may take overall control throughout the whole building.

Each input has the benefit of automatic proximity bass cut and sound level limiting, so that all announcements will be more clearly reproduced.

Order Codes:

MIM020:	Multi-zone microphone input mainframe
MPA050:	5-input module

Specifications:

Model:	MIM020:	MPA050:
Powering	24v DC@ 150mA interfaced to a 2.5mm sockets	-
Output	Balanced 0dBm, 600Ω source or -20dBm, 600Ω source	-
Output Interface	5 pin XLR	-
Frequency Response	±3dB 50Hz ~ 12KHz	Unlimited: ±3dB 100Hz ~ 10KHz Bass cut in limit: variable with voice proximity to -18dB @ 100Hz
Output Access	Suitable for VOX activated host amplifiers or for electronic access systems	-
Gong Function	When onboard selected as an option, fully automatic on using mic PTT	-
Input Capacity	4 x MPA050, 5-input modules	5 inputs per module
Input Sensitivity	-	Suitable for most 600Ω mics, -65dB
Input Gating	-	From attached mic PTT, or switched, all inputs 1st-come 1st-served; 1 input is switchable for overall priority
System Access	-	Provision made for each attached mic to be signalled by LED, that the system is available for use
Microphone Input	-	5 pin XLR (supplied)
Dimensions	483(W) x 200(H) x 88(D) mm	-



- MPA050: 5 input Microphone Module



◦ **ANS-1A Ambient Noise Sensor/
Level Regulating Module**

This level regulating/ambient noise-following module is designed to receive audio signals from an ambient sensing microphone and, where required, adjust signal levels to the power amplifier of the public address installation.

The output level of the module will automatically and constantly adjust to follow the average rise and fall in the ambient noise in the area served by the host amplifier (airports, hotel reception areas, transport terminals, sports stadiums, etc). The ambient noise will be continuously sampled by the sensing microphone/s, sited as close to the source of change as possible.

Where large areas have various localised sources of variable 'ambient' noise, it may be desirable to cover each with a separate sensor, (for example, an underground railway would benefit from having one sensor at each end to detect the noise of trains arriving from either direction).

Features:

- Microphone input (sensor) a. 200uV balanced low impedance
 b. 150mV unbalanced high impedance
- Audio In/Out - 500mV, unbalanced
- Reaction time - 20seconds, 10dB range
- XLR IN (Female) OUT (Male)

Order Codes:

ANS-1A:	Ambient noise sensor level regulating module
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◦ **Recommended...**

Use the C200 Boundary Microphone as the sensing mic for excellent, wide area noise pick-up with FPU100 Phantom Power supply



Specifications:

Model:	ANS-1A:
Power Supply	24v DC @ 40mA, this can be derived from the host system, or plug top power supply PSU24V
Microphone Sensor Input Sensitivity	200uV balanced low impedance 150mV, unbalanced high impedance
Audio Input / Output Preferred Level	500mV unbalanced
Reaction Time (to noise change)	20secs, 10dB range
Interface Connections	All signal & powering interfaces are XLR, inputs are female, output male
Dimensions	120(W) x 180(H) x 70(D) mm

○ EPA100 Telephone/PA Paging Interface

Public address access from a telephone extension can benefit most fast-moving enterprises.

Ezi-Page is designed to allow an analogue telephone extension port to which it is connected to be dialled from any other on the same PBX switch system, providing a paging announcement over a public address system. The user simply dials the extension number designated for Ezi-Page, waits for the ring tone to cease and then makes the required announcement.

Features:

- VOX access electronics maintain the line connection until the end of the announcement, approximately 5 seconds after Ezi-Page automatically clears down
- Connected to a PA system using either a designated microphone or line level amplifier input, this input can be VOX or electronic gate accessed
- Fully approved, it includes an optically isolated barrier transformer input and uses standard BT 4/500 interface plug connections
- Requires 24v regulated DC powering from the host PA system or plug-top power supply PSU24V
- Provided with a wall-mounting facility; interface connection is from below or can be housed within the PA system rack
- Installation is made simple; all terminations use standard interface connections



Order Codes:

EPA100:	Paging announcement over analogue telephone port
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Specifications:

Model:	EPA100:
Designated Extension	Analogue via BT 4/500 interface, 3m BT cable supplied
PA Output	700mV or 70mV, for line or microphone level amplifier input, VOX access amplifiers need no further connections. However, amplifiers with electronic access will require a contact closure available as 'volt free' on Ezi-Page interconnections
Powering	24v DC regulated from Communication Technology power supply type PSU24V or from the host PA amplifier
Dimensions	120(W) 180(H) x 70(D) mm



◦ FPU100 Phantom Power Supply Interface

The FPU100 has been specifically designed for use with the C100 and C200 Series electret microphones.

It provides a suitable phantom voltage for these models, model type selected via a two position switch, especially useful if the host equipment does not provide its own phantom voltage.

The unit sits in the microphone line between the microphone and the host equipment/amplifier and is easily connected via 3 pin XLR connectors. Power is introduced by a local DC plug-top supply requiring a 150mA minimum power level.

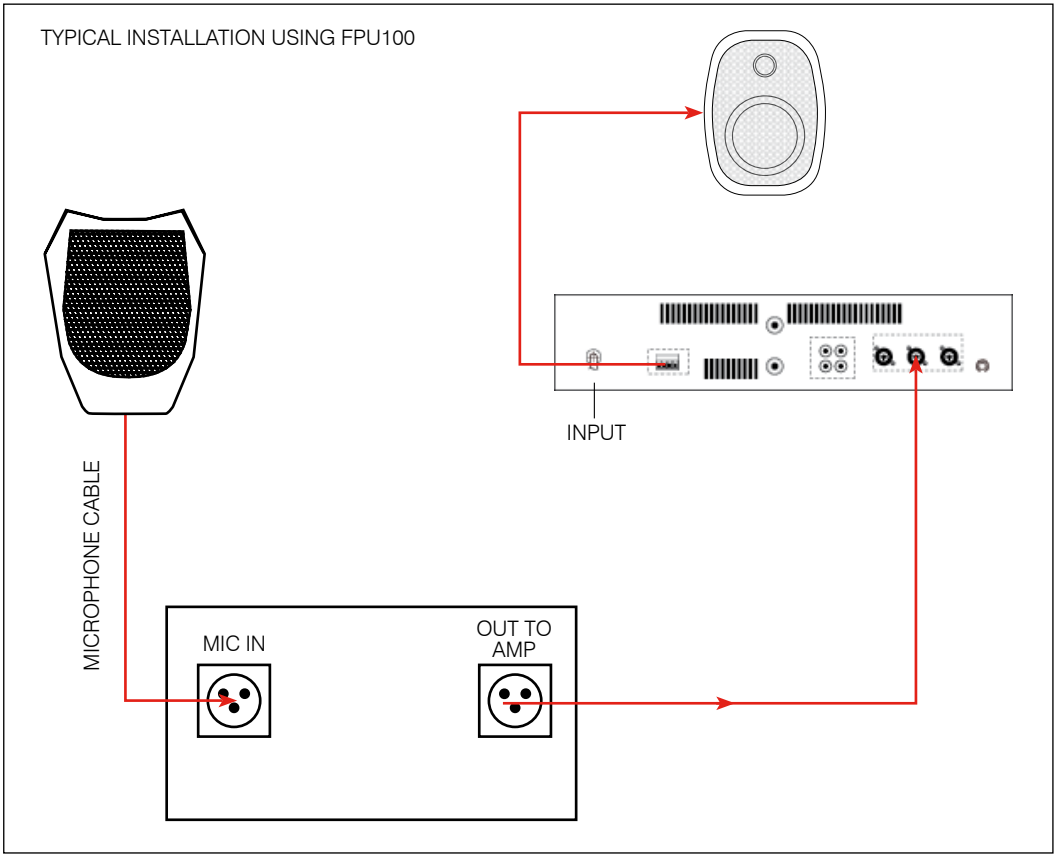


Order Codes:

FPU100:	Phantom power supply interface
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Specifications:

Model:	FPU100:
Microphone Input	Female XLR, 3 pin
Output ~ Amplifier	Male XLR, 3 pin
DC Supply Input	Locking concentric, pin positive (+) outer negative (-)



Installation Advice & Information ?

The importance of the microphone on the reception desk is all too often wrongly underestimated. It is, in reality, a vitally important component in any sound system as the quality and intelligibility of the output of any PA system can self-evidently not be better than what goes in. 'Garbage in, equals garbage out', so the quality of the microphone dictates the overall sound quality of the whole system.

Several major factors need to be considered in the design of desk paging microphones:

- The frequency response needs to be flat over the speech band without emphasising low frequencies.
- The polar diagram (area of coverage) needs to be carefully tailored to avoid picking up unwanted background noise and conversation.
- The mechanical construction must be very robust as paging microphones have a hard life and have the potential to generate more service calls than almost any other PA system component.
- 'Press-to-Talk' switches need to be exceptionally robust and non-latching.

In partnership with Communication Technology, CIE-Group offer a wide range of quality paging microphone solutions in both single and multiple zone formats.

Paging Microphones can be divided into two groups; single zone and multiple zone. For the multi-zones we offer two ranges of microphones; 'Buddy' simple yet effective or 'Pro Series' which is more sophisticated, in addition to specialist types such as vandal resistant and store-and-forward.

All microphones, as standard, are dynamic (electret versions are available to special order) and feature non-latching PTT (Press-to-Talk) buttons which mute the microphone until pressed. When released the muted state is restored automatically making accidental broadcasts all but impossible. The same button also produces a 'clean contact closure' when pressed which can be used to activate electronic access, chimes or to control paging-only zones.

Where electret microphones are used, these require a DC voltage 12v minimum to operate. This can be supplied down the microphone cable by the host amplifier if it is capable of providing 'Phantom Power'.

Phantom Power

Phantom Power is a method of providing a voltage at very low current specifically for this type of microphone. It is not normally capable of providing sufficient current to power line-amplifiers and damage to the amplifier may result if the facility is not used correctly.

Some notes on cable requirements

As the output level of microphones is very low (from 0.5 to 5mV) it is absolutely essential that good quality twin-screened microphone cable is used connected as a balanced circuit. No system will operate correctly or reliably if wired in any other manner.

Where the distance between the microphone and amplifier is greater than 50m, it is advisable to consider the inclusion of a line amplifier to compensate for signal loss down the cable. With a cable length in excess of 100m, a line amplifier should be considered essential.

Remember, a line amplifier needs DC power (usually 24v), preferably derived at the amplifier location. This requires an additional pair of wires where power is not required for other facilities. CIE-Group stock a suitable cable (West Penn 357). Local powering is possible but should only be used as a last resort as, if the supply is unplugged or switched off, the system will not operate.

Where additional cables are used for controlling relays and providing power, it is often more economical to install a separate multi-core cable as screening is not required. Twisted pair cable is desirable and the wise installer allows a few extra pairs to cater for future expansion.

Single-Zone Microphones

These usually address the entire system as a single-zone, however it is possible to divide a system which has music into two-zones. One with paging and music and one which carries the paging announcements only by using a ZRU102 configured as a Music Paging Selector.

Actual choice of microphone depends on the distance between the microphone and amplifier and the sophistication required.

BUD100 is a simple yet robust unit featuring a gooseneck-mounted microphone well known for its voice clarity in almost any operating environment and made in the UK by Communication Technology.

DPM102/B is a more sophisticated pre-amplifier with a built-in limiter and progressive bass cut for improved intelligibility with other optional facilities.

Multiple-Zone Microphones

As standard, 2/5/10 zone formats are available. Systems requiring more than 10-zones can be manufactured to special order (quotations available on request).

2-Zone

Either a BUD200 or DPM202/B microphone can be used with the ZRU102 loudspeaker routing and paging selector to create a versatile 2-zone system.

Up to 5-zones & 10-Zones

Two methods can be employed depending on the sophistication required.

The simpler of the two utilises the ZSU-5, part of the 'Clever Little Box' range, to switch 100v speaker lines and either DM105/CT or DM110/CT microphones. ZSU-5 is a 5-zone relay selector where two or more units can be slaved together to create larger systems. A number of microphones can be connected with the zone selection on each being independent of all the others. **Note that a separate input is required for each microphone on the system.** Music selection is also possible. Full details of the various applications are contained in the ZSU-5 specification sheet.

Pro-range Multi-zone, Multi-point, Zone Paging System

These dedicated 5/10-zone self-cancelling paging points operate exclusively with a rack-mounting ZRU010 relay interface and central logic processor for up to 10 zones. ZRU010 processors can be cascaded to create larger systems. Up to 8 paging points can be operated by a single ZRU010.

Whilst most system designers will switch zones of loudspeakers, the system is sufficiently versatile to operate between pre-amplifiers, 600Ω signal sources or with individual zone amplifiers. Each paging point incorporates audio compression; an in-built pre-announcement 'gong' is a link selectable option.

Audio and data communication between the ZRU010 central processor and each paging point uses standard CAT5 technology and cabling.

Operations of the 'Press-to-Talk' button activate the zone relays. After release, and on completion of the page, the system is automatically returned to default 'All-Call' state. The operator does not have to remember to cancel the zone(s) selected.

Provision is made to connect a dedicated music amplifier and a separate paging amplifier. When a system is configured this way, paging into individual zones will not disturb the distribution of music to others. Full specifications and configuration details are contained in the product application notes.

Gooseneck Microphones

For many years the speciality of Communication Technology, the UK-designed range now comprises dynamic and electret gooseneck microphones in lengths up to 420mm with or without XLR terminations and rugged heavy duty versions for such applications as buses, cranes, transport termini and supermarket check-outs.

Wall Microphones

The most common of these more specialised types is the wall plate mounted microphone. Designed to be flush-mounted into a wall, they are very useful where a microphone is required at (for example) a security gate or building entrance but can also be used in industrial applications where a heavy duty unit is desirable.

Most (but not all) are intended to be mounted in a standard twin-gang 25mm deep electrical box and are weather resistant for use outdoors.

The more robust types are designed to withstand a high degree of misuse or deliberate vandalism. This usually includes stainless steel front plates, microphone grilles and heavy duty PTT switches as in the Pro-Series.

Store & Forward Microphones

Acoustic feedback (howl round) has always been an issue with public address systems. Digital technology has now provided the answer in 'store-and-forward' technology. The idea is simple; record the message into a digital store which holds the message until the press-to-talk switch is released.

As the message is not sent out in real time (i.e. when the microphone is active), any possibility of feedback is eliminated.

In addition, the inclusion of a storage facility opens up other possibilities; these include message screening and more interestingly, the prospect of storing announcements that are required on a regular basis. Up to 3 messages can be stored with a total capacity of 2 minutes. Messages are user recordable and can be sent out manually on demand or on a timed basis, the interval being set on the microphone. It should be noted that this type of unit is not suitable for use as the primary microphone in voice evacuation systems.



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E&OE. Specifications correct on date of publishing, subject to change in the interest of product development



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