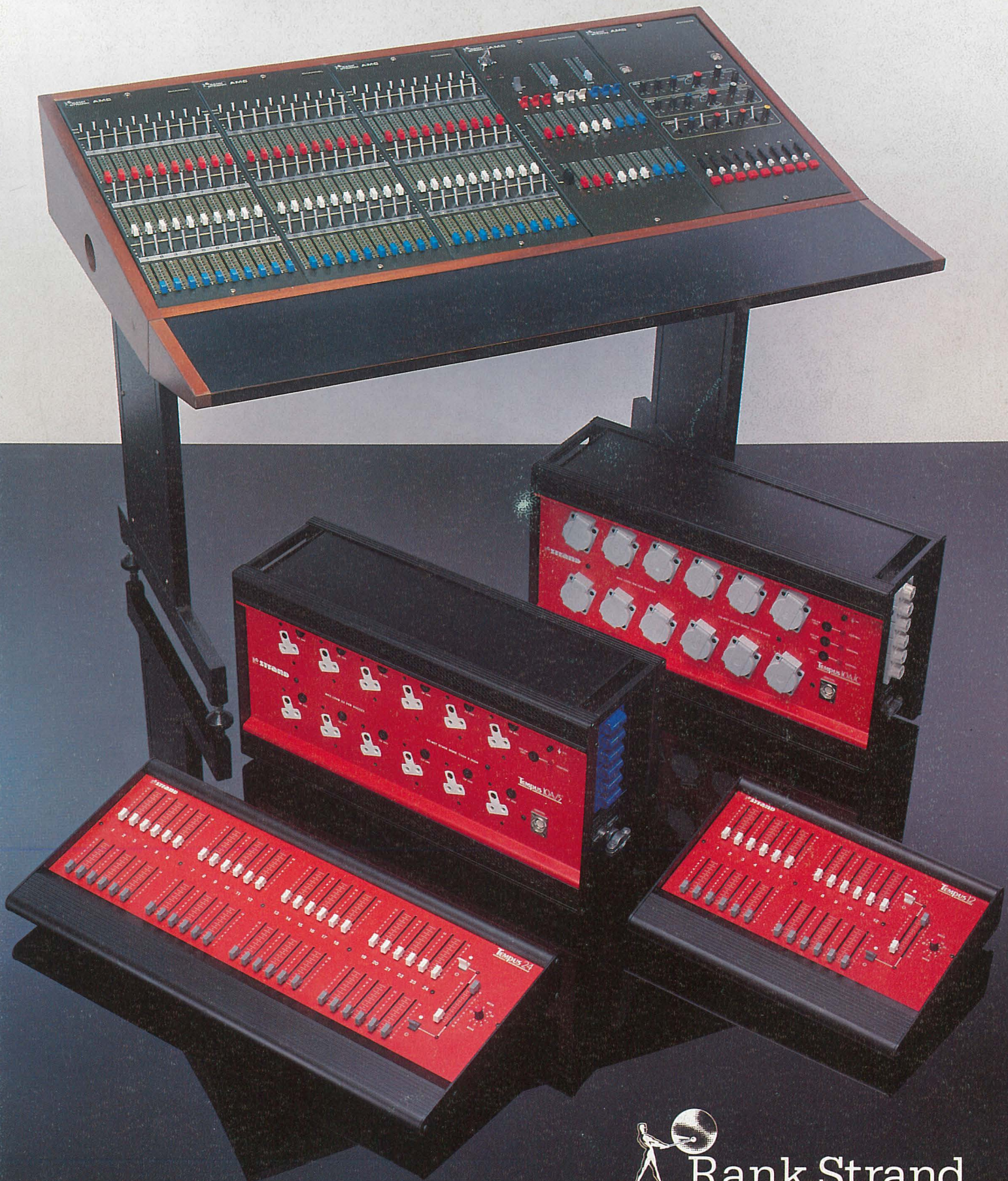


PRESET LIGHTING CONTROLS AND DIMMERS



Rank Strand

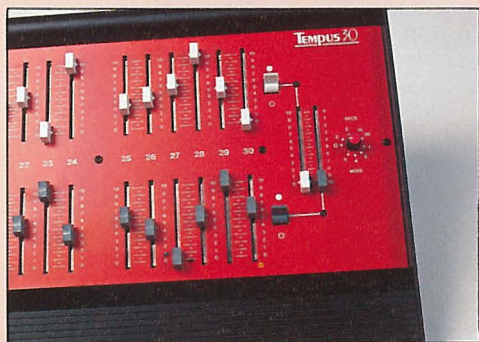
PACKAGED
LIGHTING CONTROLS
FOR 6, 12, 18, 24, 30 OR 36
CHANNELS

TEMPUS

Tempus 2-preset desks and Tempus portable dimmer packs combine to form the most comprehensive range of portable, plug-together lighting controls for up to 36 or more control channels. Tempus desks can also be interfaced with Permuss dimmer racks for permanent installations; similarly Tempus dimmer packs are compatible with AMC or other Strand current and recent control systems.

Tempus Desks

Tempus 2-preset desks are manufactured for 12, 18, 24, 30, or 36 control channels, all with the same facilities and varying only in overall length to accommodate the number of channel faders. All sizes are normally available for off-the-shelf delivery including the extension desk, without duplicated master faders, which simply plugs into any other Tempus desk to provide another 12 control channels.



All other Tempus 2-preset desks have a single, split crossfader for dipless and profiled, proportional crossfades between the intensity levels set on the two presets of channel faders. Presets can be pile-added too, with the highest level taking precedence. In addition the rotary control allows crossfades to be automatically timed between 5 seconds and 5 minutes.

The Tempus range also includes a 6-lever control box complete with master fader to control just a minimal 6 channels and Discoplus desks for 3-channel sound to light and chase modulation. The 6-channel Discoplus desk includes individual channel fader and flash pushes; the 18-channel desk has the addition of cycle modulation but is used with any Tempus preset desk for individual channel control.

Each Tempus control desk has a 2 metre flexible control cable fitted with an 8-pole, mechanically latching plug for each block of 6 control channels. This plug mates with the control socket provided on the front panel of each Tempus dimmer pack. For remote control each control cable for 6 channels can be extended by a 5 metre or 19 metre control extension cable,

complete with the necessary plug and socket. Extra-low voltage power supplies for the desk are derived, through the control cable, from each Tempus dimmer pack. A full range of accessories is available including padded transit covers for any Tempus desk or dimmer pack.

Tempus Dimmer Packs

Tempus portable dimmer packs are built to professional standards of safety, reliability and convenience. Each contain either 6 x 10A or 3 x 20A/25A top quality Thyristor dimmers, their associated filters, and power distribution from supply terminals to socket outlets for the connection of the 220/240v tungsten lamp loads.

Internally Tempus 10A dimmers are in a twin module format with filtering to professional theatre standards. 20/25A dimmers are single modules and have even more superior filtering to broadcast studio standards. The temperature stable trigger cards, incorporating automatic bottom set for reliability and safety, are now manufactured with hard-firing for each pair of tungsten surge-rated Thyristors ensuring stable operation with loads as low as 40 watt.

Tempus 10A/C is fitted with twin Schuko outlets for each dimmer channel, Neozed fuses and power distribution for a 3-phase and neutral supply including an earth/ground conductor. The Tempus 10A/15 dimmer pack is fitted with twin 15A 3-pin shuttered socket outlets to each of the six 10A Thyristor dimmer channels and shrouded-contact fuses providing close-excess current protection. Power distribution is for a single phase and neutral supply with an earth continuity conductor. Tempus 10A/5 pack is similar, but fitted with twin 5A 3-pin shuttered sockets, individually fused, limiting the maximum single tungsten lamp load to 1000W.

ADVANCED
MANUAL CONTROL
FOR UP TO 120 CHANNELS

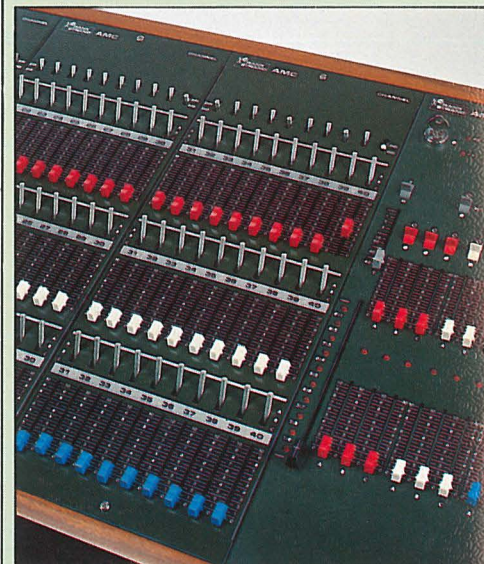
AMC

AMC multi-preset, multi-group desks are based upon 10-channel 3-preset modules, a choice of Master modules both with a dipless crossfader for 9 submaster groups, and an optional Effects module. These various modules, also including selectable inhibit master/independent grouping, combine to form the most comprehensive manual control system for as few as 20 up to a maximum of 120 control channels.

AMC modules are totally self-contained and linked by a common plug-in ribbon cable. This modularity gives great variety in the layout to suit local circumstances. Free-standing desks of polished wood house 5, 7 or 9 module widths. For more than 80 channels the desk capacity is extended by a matching double-tier wing. AMC modules can also be built into strong, but lightweight cases especially designed for the rigours of touring.

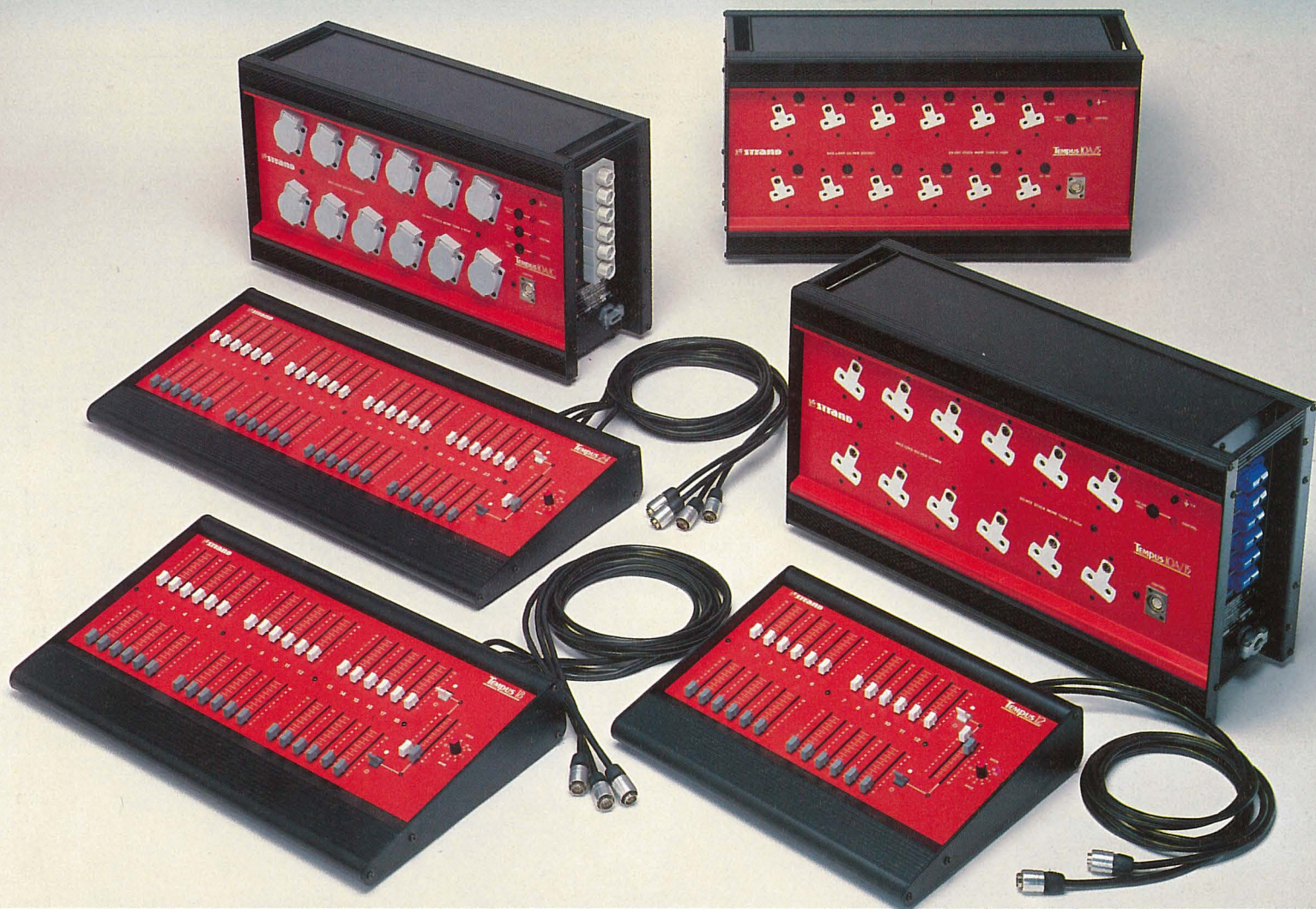
AMC desks are normally used to control permanently installed Permuss dimmer racks, or existing STM or JTM racks, but can be used with Tempus portable dimmer packs.

AMC Channel Module

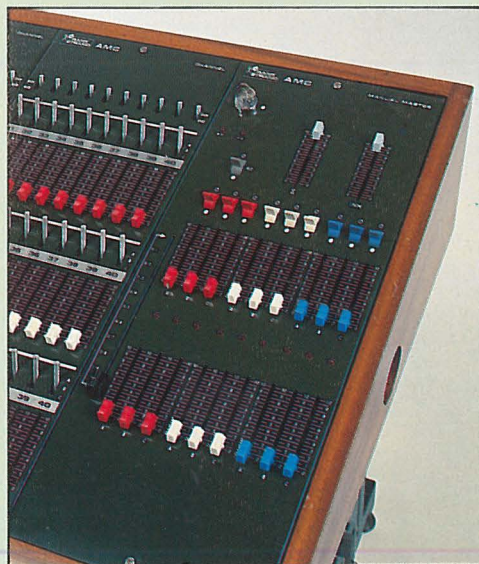


Each Channel module has 10 consecutively numbered control channels. There is a Red, a White and a Blue preset fader for each channel and a 3-position switch above each fader to select to the A, B or C group for that preset. Each channel has an additional 3-position switch near the top of the module; when this switch is in the top position the channel functions normally, but if changed to the mid position the channel is routed to the overriding control of the inhibitor (INH) master fader which progressively inhibits the response of selected control channels on all groups of all presets. The third position of the upper switch, selects the channel to independent (IND) to allow direct control by the Red preset fader only, independently of all group master faders, even the Grand Master.



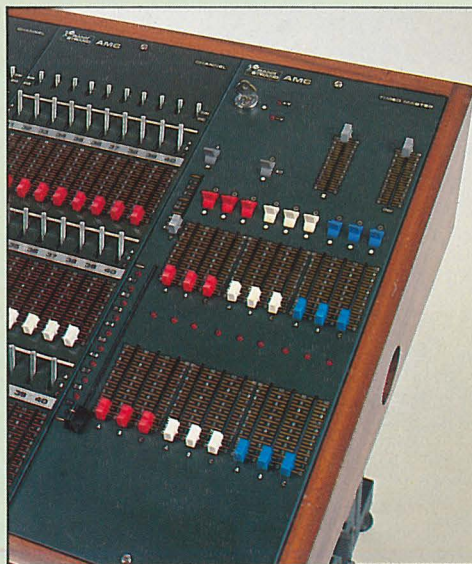


AMC Manual Master Module



The A, B and C groups for the Red, White and Blue presets each have two group master faders; one bank associated with each end of the long-travel crossfader. Every group also has a Blackout switch and an indicator to highlight which are active. The method of mastering ensures that any group, or groups, can be cross-faded with any others without any unwanted change to channels set to the same intensity in both the incoming and outgoing lighting, but linear for all channels that should change. Groups can be pile-added with the highest intensity level taking precedence. The module also has a power-on Keyswitch, power supply indicators, a Dead Blackout switch and a Grand Master fader to control proportionally all channels except those selected to independent (IND). The inhibit (INH) master fader determines the maximum intensity level of all those channels selected to the inhibit group to simplify the operation of two-part lighting changes.

AMC Timed Master Module



This alternative to the Manual Master Module has the same facilities, plus an extra Time fader and seconds/minutes switch to electronically delay the effect of the dipless crossfader to take up to 60 seconds or minutes. The progress towards completion of the crossfade is shown by a column of indicator lamps alongside the scale of the crossfader. Timing can be preset, but also accelerated or retarded, on the Time fader.

AMC Effects Module



This optional module features two sophisticated effects generators, plus a four frequency band sound to light converter. The two effects generators each have 7 different modes for variable speed chase and cycle functions, including progression triggered by the bass beat of an external audio signal. The vertical columns of push switches and a flash push select the nine group masters of the AMC master module to any of the effects sources.

NEW
RACK-MOUNTED
THYRISTOR
DIMMING SYSTEM



PERMUS DIMMERS

PermUS Dimmer Racks, embodying PermUS Thyristor dimmer modules, are the economic power-handling component for permanent, hard-wired lighting control systems. These shallow racks require only front access, plus top access for the electrical contractor, and can be mounted side by side against a wall, or mounted back to back; either method ensures that only the very minimum of valuable floor space is required.

Dimmer Modules

The rugged and reliable PermUS dimmer modules incorporate a temperature-stable trigger card with hard-firing of each pair of tungsten surge-rated Thyristors mounted on generous heat-sinks. Hard-firing ensures stable operation on loads as low as 40 watts and for transformer-fed lamps. A new transfer characteristic has been incorporated to give increased control sensitivity, and improved standards of reliability, and safety, are ensured by elimination of the bottom-set potentiometer.

Dimmer Racks

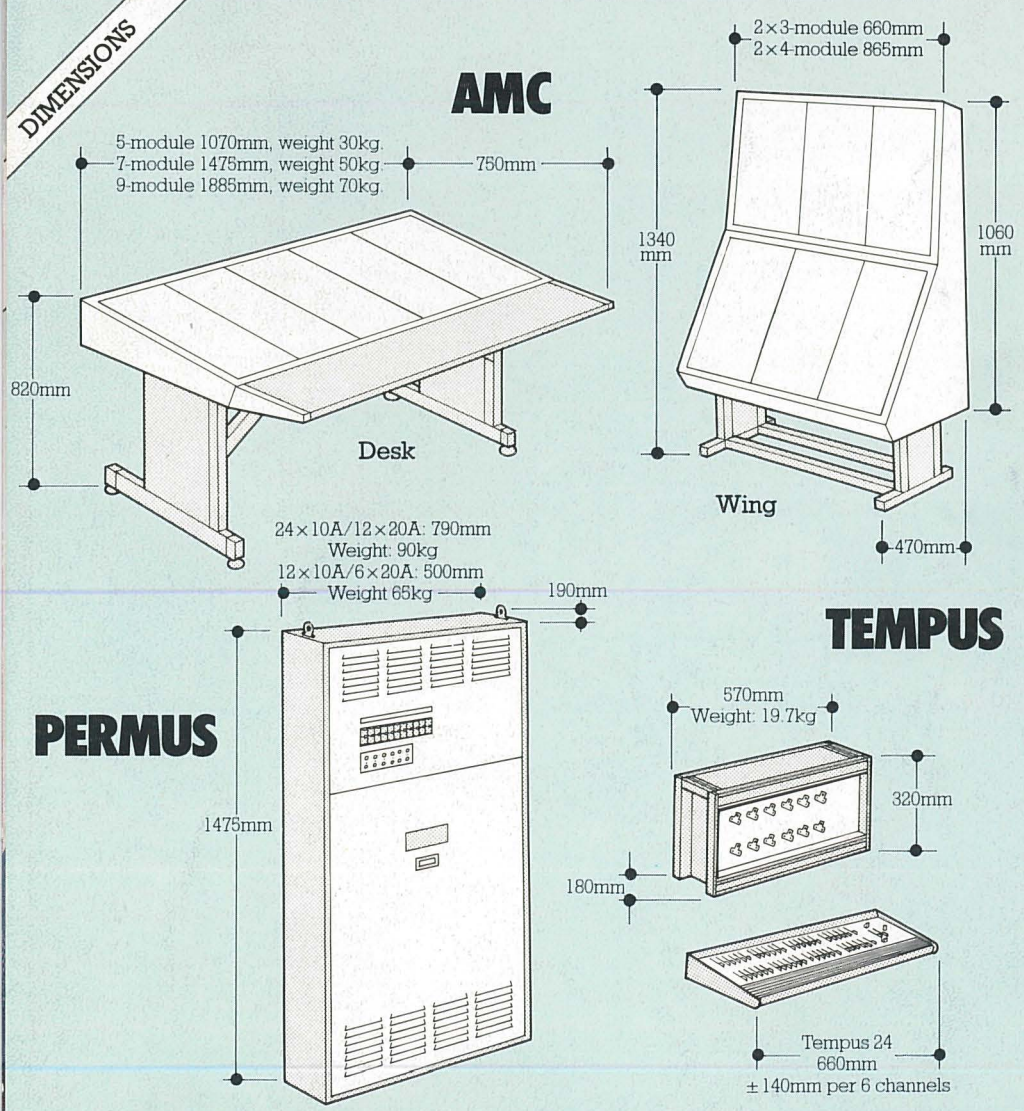
The standard width PermUS racks, stocked and ready for despatch, are already fitted with either $24 \times 10A$ dimmers in twin module format, or alternatively $12 \times 20/25A$ single dimmer modules. For maximum flexibility of the total number of dimmer channels, and to allow mixed ratings in a multiple-rack installation, there is also a narrower rack available housing either $12 \times 10A$, or $6 \times 20/25A$ dimmers. All PermUS dimmer racks employ natural air-flow ventilation, are available with either Reyrolle or Neozed close-excess current protection, and are internally wired for a three phase and neutral incoming supply. Provision is made to allow each two adjacent dimmer modules ($4 \times 10A$) to be changed, on site, to a different phase, or to change to a single phase and neutral supply.

Tempus Control Desks

For use with Tempus desks a power supply unit needs to be added to one PermUS rack and twin or quad control socket boxes are necessary to receive the plug-terminated flexible cable for each block of 6 channels.

Further detailed information on Tempus, AMC and PermUS is contained in individual data sheets, available on request.

DIMENSIONS



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