

# Murraypro

# PPM-6



## COMPACT, AUDIO METERING UNIT

The **MURRAYPRO PPM-6** provides high quality, multi-function, 4 channel audio monitoring facilities in a compact unit only 1U high.

Designed to be mounted close to the picture monitor for audio level monitoring in Non-Linear/Off-Line Editing applications, **PPM-6** will also suit many other applications where space is at a premium.

The self-contained **PPM-6** provides physical A1, A2, A3, A4 Peak Programme Metering, M&S level monitoring, overload indication, dual stereo phase verification and audio presence confirmation *simultaneously*, all this *without* cluttering the TV display monitor in any way, + an AES input option !

### PEAK PROGRAMME METERING

PPM monitoring is provided on six illuminated miniature meters. True PPM scaling together with the classic fast attack and slow decay times are ensured by the full specification precision meter drive amplifiers. The miniature movements that are fitted within the 1U case height have a very slightly relaxed specification, boast a surprisingly large 42 x 20 mm scale, and closely emulate the full-sized BS 6840 meters. Internal, ultra bright, LED illumination is provided to ensure full visibility under all operational conditions. The PPMs are designed to have an exceptionally low stray magnetic field and will not affect adjacent CRTs, vital when there are 6 in a single Rack Unit!

### INPUT MONITORING

**PPM-6** is configured so the **A1, A2, A3, A4** input signals are displayed on the respective left hand meters.

### Mix & Separation MONITORING

**M** and **S** meter monitoring, switch selected from **A1/A2 or A3/A4** channel pairs, is displayed on the right hand meters. Optionally, the displayed **M** signals may be increased in level by 3dB, in accordance with BBC preferences, by adjustment of two further links.

### PEAK LEVEL INDICATOR

Four independent red LEDs indicate peak input signal levels in excess of +8.15dBV.7 ( $\pm 0.15$ dB) for each channel. These LEDs conform with the full PPM attack specification, and are not subject to the ballistic considerations of meter movements.



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## PHASE VERIFICATION

Correct A1:A2 & A3:A4 phasing is indicated by green illumination of the f indicator. *Incorrect phasing* of either channel pair is immediately obvious as the respective **PPM-6** f indicator *changes colour to red*. The phase indication is extremely reliable, and is vital in an editing environment; where the highly visual **PASS/FAIL** indication provides this vital information instantly, preventing embarrassing, .....and often expensive, mistakes which may only become apparent much later!



## AUDIO PRESENCE CONFIRMATION

**Audio present** is visually indicated by illumination of the stereo phase LEDs, in either colour, and is particularly useful when the LS volume may be reduced. The phase indicator(s) extinguish when *both* A1 and A2 signals (A3 and A4) are below approximately -25dBV.7, preventing nuisance triggering on very low level signals.

## AUDIO INPUTS & AES IP Card Option

Looping high impedance balanced audio inputs on female-male XLR-3 are provided for each channel input. **AES dual channel input cards** are available (some with actively buffered AES outputs!), ensure that interfacing with the **PPM-6** is particularly flexible.

## M & S MATRIX: UTILITY OUTPUTS

Utility line level outputs of the derived (A1/A2) M & S channel are provided on the rear panel XLRs. It may be of interest to note that this *internal matrix*, which has a nominal balance exceeding 40dB, *has a useful dual function* and will also convert an *M & S* signal on the input A1 & A2 connectors *back* to *L & R* on the rear panel M & S output connectors!

## POWER

**PPM-6** requires approximately 4VA. Configured to run from 230v supplies, mains power is supplied via an IEC connector fused @ 63mA T. 110 v operation to special order.

## PHYSICAL

The miniature Sifam PPM movements have been specially designed to have a very low external magnetic field, which results in negligible interaction with adjacent equipment containing sensitive CRTs

The rack width **PPM-6** is only 1U high and 150mm deep. Weight is less than 1.5 KGm. **PPM-6** conforms with the CE marking requirements.

Designed and manufactured in the UK by Murraypro Electronics

