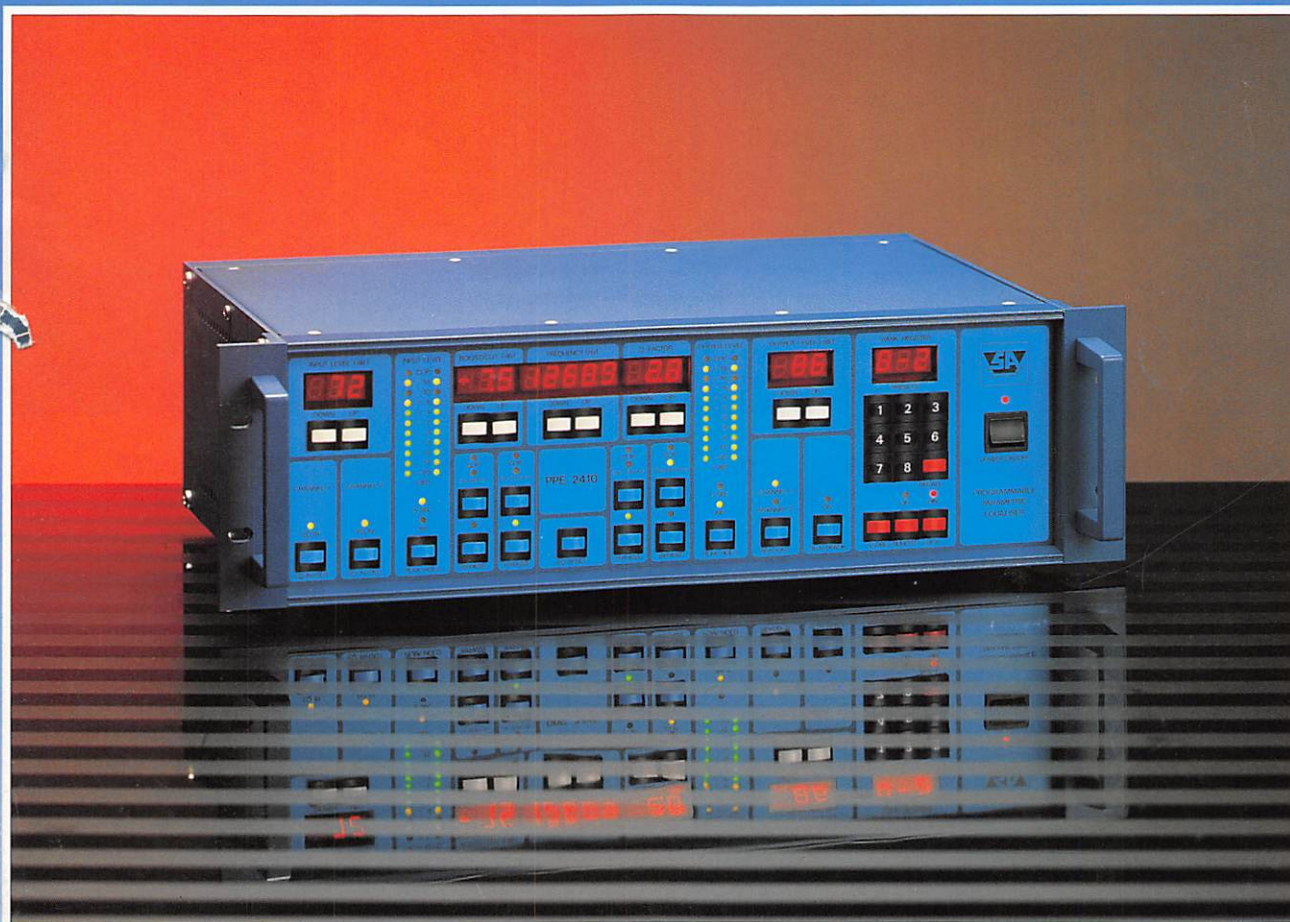


# SA PPE-2410 Programmable Parametric Equaliser

*“The Equaliser with Brains...”*



- Full Parametric Equaliser  
stereo 4-band; dual tracking possible
- 64-Register Memory Bank  
preserve and recall your favourite settings
- All Functions Programmable  
ultimate versatility through full programmable functions
- Automation Ready  
standard SAnet and MIDI interfaces
- Studio Quality  
extreme low distortion
- Built-in Leveller  
average output level remains under adjustable maximum



# SA PPE 2410 Parametric Equaliser

The SA PPE 2410 is a sophisticated, programmable, 2-channel 4-band parametric equaliser with total control of all variable settings. The memory offers storage, recall and comparison of up to 64 different settings. Once you've programmed an optimum EQ for a certain instrument or set of speakers, you can retrieve it in an instant with a push of your fingertip. Center frequencies are visible on a highly accurate 5-digit display. By "sweeping" a narrow boosted peak you can easily detect resonances and identify the frequencies at which they occur. 3-Digit displays are provided for input level, cut/boost level, Q-factor, output level and for preset banks and registers. Input and output signal levels are displayed on LED bars with peak indication. With SAnet and MIDI interfaces as standard features, computer remote control and studio automation are possible. The PPE 2410 analog, digitally controlled equaliser amply matches the performance and capabilities of the all-digital competitors at only one tenth of the cost! By combining top quality components with an unequalled solid construction this equaliser is ideally suited to the heavy handling in "on the road" situations.



## Extensive interface and comparison features

To allow for combination with semi-professional equipment like home-recording and HiFi equipment, the input gain of the PPE 2410 can be increased to +10 or +20 dB. Together with the level meter on the input as well as the output, the input and output levels can be adjusted in a way that an optimal signal to noise ratio can be achieved. For comparison of original and processed signal, 2 EQ in/out switches are provided, one for each channel. Besides, 4 band-bypass switches per channel allow for quick determination of the effect of one band. The use of advanced OPAMPs in the equaliser circuit guarantees excellent sonic performance.

## Microprocessor control advantages

As a result of the digital control, the analog signal path is as short as possible which results in a significant quality improvement. Another advantage is that the accuracy of the equaliser settings is better than with comparable analog controlled equalisers. To avoid operation by unauthorised personnel, the operation of the total equaliser can be locked by a standard lock function. Related to the lock function is the "presets only" function with which only presets can be recalled without the possibility to change them.

## Standard leveller function

The standard leveller function is very useful in situations where the average sound pressure level of a system must be limited to a certain value. Unlike a real limiter, the PPE 2410 leveller works very smoothly, which results in an insensible and undistorted signal attenuation whenever the average output level exceeds an adjustable maximum output level.

## Custom network communication

Data communication between the PC and the PPE 2410 is realised through a specially designed network called SAnet. This universal network uses high speed (375 kbps) serial data transmission and can be used at distances up to 500 metres. It is totally unsusceptible to unwanted external interferences and is much faster than MIDI. Every IBM and IBM compatible personal computer can easily be prepared for use with SAnet by simply inserting a single PC board. And, of course we supply our own SA PC, a sturdy "road-proof" AT-type computer installed in a custom designed flight-case.

## Technical specifications SA PPE 2410

Maximum input level:	+20 dBm (reference 0 dBm = 0.775 V)
Maximum output level:	+20 dBm
Extra input amplification:	0 dB, +10 dB, +20 dB
Input impedance:	24 kOhms each leg, (30 kOhms unbalanced)
Output impedance:	25 Ohms each leg (50 Ohms unbalanced)
Frequency range:	20 Hz - 20 kHz, -0.25 dB 10 Hz - 200 kHz, -2 dB
Signal/noise ratio:	> 90 dB, 10 Hz - 100 kHz, typ. 100 dB at 1 kHz
CMMR:	> 80 dB, 10 Hz - 100 kHz, typ. 90 dB at 1 kHz
Channel separation:	> 80 dB, 10 Hz - 100 kHz, typ. 90 dB at 1 kHz
THD (+10 dBm):	< 0.005%, 10 Hz - 100 kHz, typ. 0.003% at 1 kHz
IMD (+10 dBm):	< 0.01%, 2 kHz - 20 kHz
TIM (+10 dBm):	< 0.005% at 15 kHz
Slew rate:	> 7 V/us
Max. boost/cut level:	+/-19.5 dB (per band)
Q-factor:	minimum 0.3, maximum 15.0
Central frequency range:	band 1: 20 Hz - 600 Hz band 2: 60 Hz - 2000 Hz band 3: 200 Hz - 8000 Hz band 4: 600 Hz - 20000 Hz
Remote control:	SAnet (SA network) and MIDI
Mains supply:	110 V/220 V/240 V AC - 50 Hz/60 Hz
Consumed power:	50 VA
Weight:	8.6 kg
Housing:	19 inch rack mount, 3 units high, 32.5 cm deep (without connectors)

IBM® is a registered trade mark of International Business Machines corp.  
Stage Accompany reserves the right to change specifications without notice.



## Stage Accompany

Anodeweg 4, 1627 LJ Hoorn  
The Netherlands

Tel: (0)2290 - 12542, Fax: (0)2290 - 11192  
Telex: 37989 Stage nl