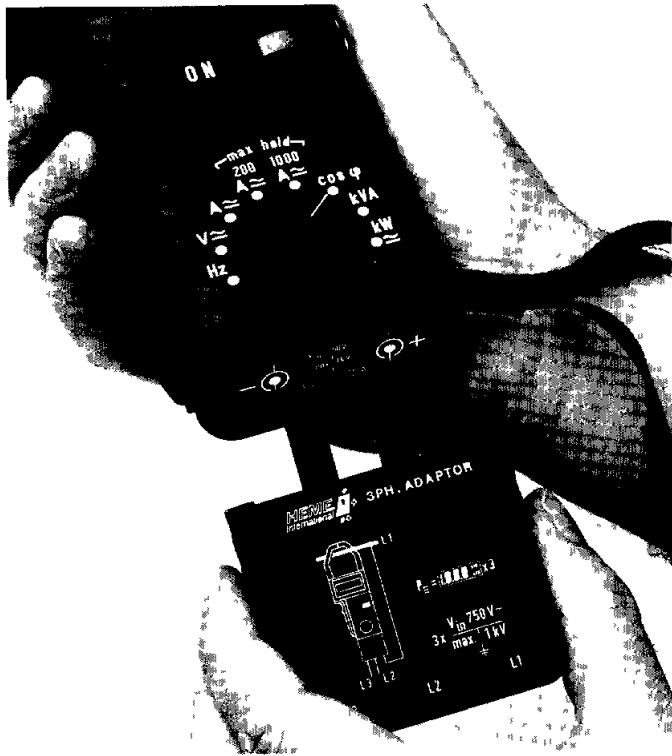


HEME 3PH Three Phase Measuring Adaptor

The 3PH Adaptor is designed to plug into the HEME 1000P and HEME 200P power meters. The adaptor makes it possible to measure the active power, apparent power, and the power factor $\cos \phi$ in three-phase systems where the neutral conductor is not accessible



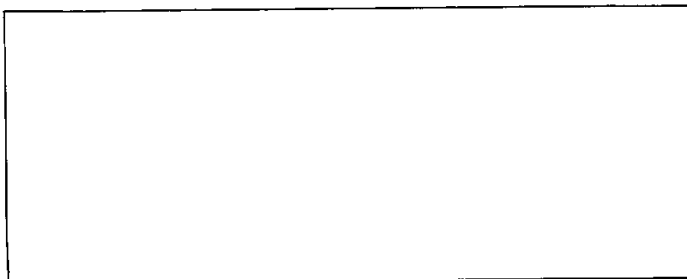
Artificial Neutral Conductor

Three precision resistors R_A , R_B , R_C , each with the same value, generate an artificial neutral point. The voltage of one phase, referred to this neutral point, is then available at the output of the adaptor (in the block diagram, L1 is used)

The clip-on power meter thus measures power (V_{ph} , I_{ph} , $\cos \phi$) in one of three phases as shown in the lower diagram. The instrument reading is then multiplied by 3 to determine the total power consumed

Technical Data

Maximum input voltage: 3×750 Vrms
 Test voltage: 6 kV
 Enclosure Class II in accordance with BS4743 (IEC 348 and VDE 0411)

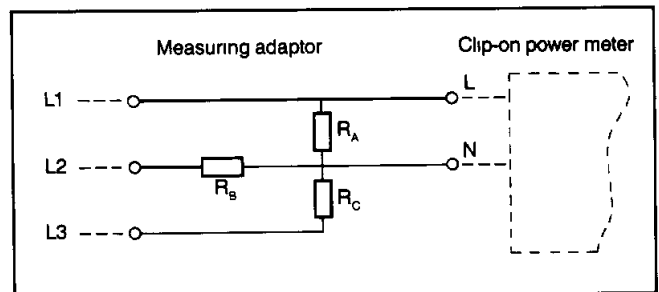


Operating Procedure

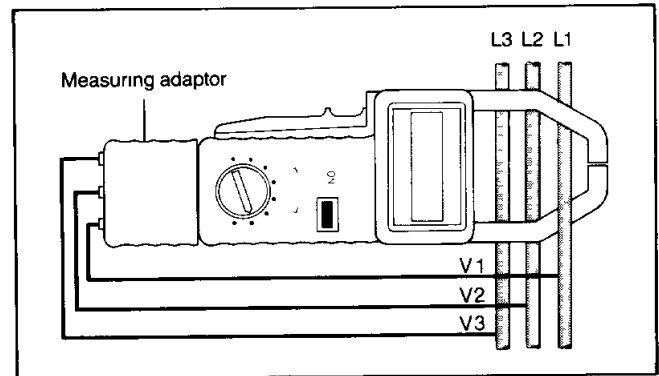
Plug in the adaptor, set the rotary switch to the desired position, connect the voltage, press the ON button and close the clamp jaws around the current carrying conductor

For power measurements, the power meter selects the appropriate range, indicates any existing range overflow, and automatically detects the direction of power flow. For power factor measurements, it indicates the $\cos \phi$ value and also shows whether this value is inductive or capacitive

Block diagram of the measuring adaptor



Power measurement in a three-phase system



HEME International reserves the right to amend this specification without notice.

HEME International produces a range of instruments and devices for measuring electrical parameters. These include Clip-on Current Meters, Clip-on Power Meters, Clip-on Current Probes and Current Transducers covering the range 25A to 100 kA

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