Portable Test Equipment for K*G4V, KF and KH Series Proportional Valves and Associated Vickers Amplifiers

EHA-TEQ-700; 2* Series

Circuit and Connections

Edge connector to mate with:
- Cable to proportional valve, or
- Cable to application electrics via attached extender board

Digital voltmeter (DVM) ranges:
- AC 200 mV, 2V, 20V, 200V
- DC 200 mV, 2V, 20V, 200V

Ramp time measurement
- Command signal input potentiometer 0 to ±10V

Command signal input potentiometer with three options:
- ±10V, ±20 mA, 4-20 mA

Three switched outputs: 0 or +15V

Warning: Electromagnetic Compatibility (EMC)
The European Community directives for electromagnetic compatibility (EMC) do not apply to this product.

External power source

Transformer and rectifier

AC mains input socket

Digital voltmeter (DVM)

Command signals

Ramp time measurement

44 command signal/measurement sockets

Other pins of common identity but not listed above are connected as shown.

▲ Certain pins of the same identity in the two edge connectors and the socket panel are linked internally as shown above. These pins are:
- z4, 6, 8, 10, 16, 24
- b4, 6, 8, 10, 12, 16, 18, 20, 24
- d2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28

▲ Other pins of common identity but not listed above are connected as shown.
### Operating Data

<table>
<thead>
<tr>
<th>Scope</th>
<th>An aid to commissioning specified Vickers proportional valves, amplifiers and their applications. Checks and measurements of their parameters can be made.</th>
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</thead>
<tbody>
<tr>
<td><strong>Features:</strong></td>
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<tr>
<td>Mains power supply</td>
<td>110/130/220/240V (+10 to –15%) AC 50/60 Hz (100 VA max.)</td>
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<td>Power supply to amplifier under test</td>
<td>24V DC (40W max.) internally from AC/DC converter or externally from application electrics. Panel-mounted change-over switch.</td>
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<tr>
<td>Command signal source selector</td>
<td>Panel-mounted switch. Internal or application source; LED indication of latter.</td>
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<td>AC or DC voltage measurements</td>
<td>Digital voltmeter (DVM), 3.5-digit display. Panel-mounted.</td>
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<td>Ramp time/pulse measurement</td>
<td>Two-range timer offering selection of 0-1 or 0-10 sec ranges.</td>
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<td>Voltage or current command signals</td>
<td>Two independent panel-mounted potentiometers with polarity selectors.</td>
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<tr>
<td>Command signal enabling</td>
<td>Three independent panel-mounted switches and output sockets.</td>
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<tr>
<td>Measurement and/or command signal input sockets</td>
<td>44 x Ø 2 (0.0787 dia.) sockets, access to DIN 41612 F48 edge connector pins.</td>
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<tr>
<td>Connector for Vickers amplifier</td>
<td>DIN 41612 F48 edge connector.</td>
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<tr>
<td>Connector to machine electrics or Vickers proportional valves</td>
<td>DIN 41612 F48 edge connector for flying leads.</td>
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<tr>
<td>Casing</td>
<td>Standard enclosure with carrying handle.</td>
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<tr>
<td>Control panel</td>
<td>See next page</td>
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</table>
| Accessories supplied loose with EHA-TEQ-700 | a. Mains lead. User to supply and fit mains plug.  
b. Connecting lead to proportional valve.  
c. Lead and extender board. For connecting application electrics to test equipment.  
d. 30 x Ø 2 (0.0787 dia.) plug leads for control panel connections.  
e. Operating manual. |
| Operating modes | a. To monitor an application by connecting EHA-TEQ-700 to a DIN 41612 F48 edge connector on the application.  
b. To drive an installed proportional valve independently of the application electrics by connecting the EHA-TEQ-700 directly to the valve.  
c. To bench-test a Vickers amplifier and the spool movement of the associated proportional valve. A pilot pressure supply will be needed when testing a two-stage valve. |
| Installation dimensions | See next page |
| Mass | 6,8 kg (15 lb) approx., including accessories. |
Control Panel

- Edge connector for extension cables
- Command signal and measurement sockets
- Digital voltmeter (DVM)
- Command signal input potentiometers
- Command signal source selector
- Power source selector
- Enabling switches

Installation Dimensions in mm (inches)

- 180 (7.09) mm
- 175 (6.89) mm
- 305 (12) mm over handle
- 285 (11.22) mm
- 340 (13.39) mm
- 380 (14.96) mm over handle and feet