

Industrial Valve Test Box Kit EHA-TEQ-471-A-10



General Description:

The test box kit is designed to test proportional valves and their electronics. The equipment is useful for hydraulic valves with integrated electronics, i.e. KB-valves and AxisPro valves. The test box kit has an internal supply for 24V, which can supply one valve. The mains lead connects the test box with the outlet. The range from the main supply is 100V to 240V. A cable with 7 pin Amphenol connector connects the test box with the electronics of the valve.



Features:

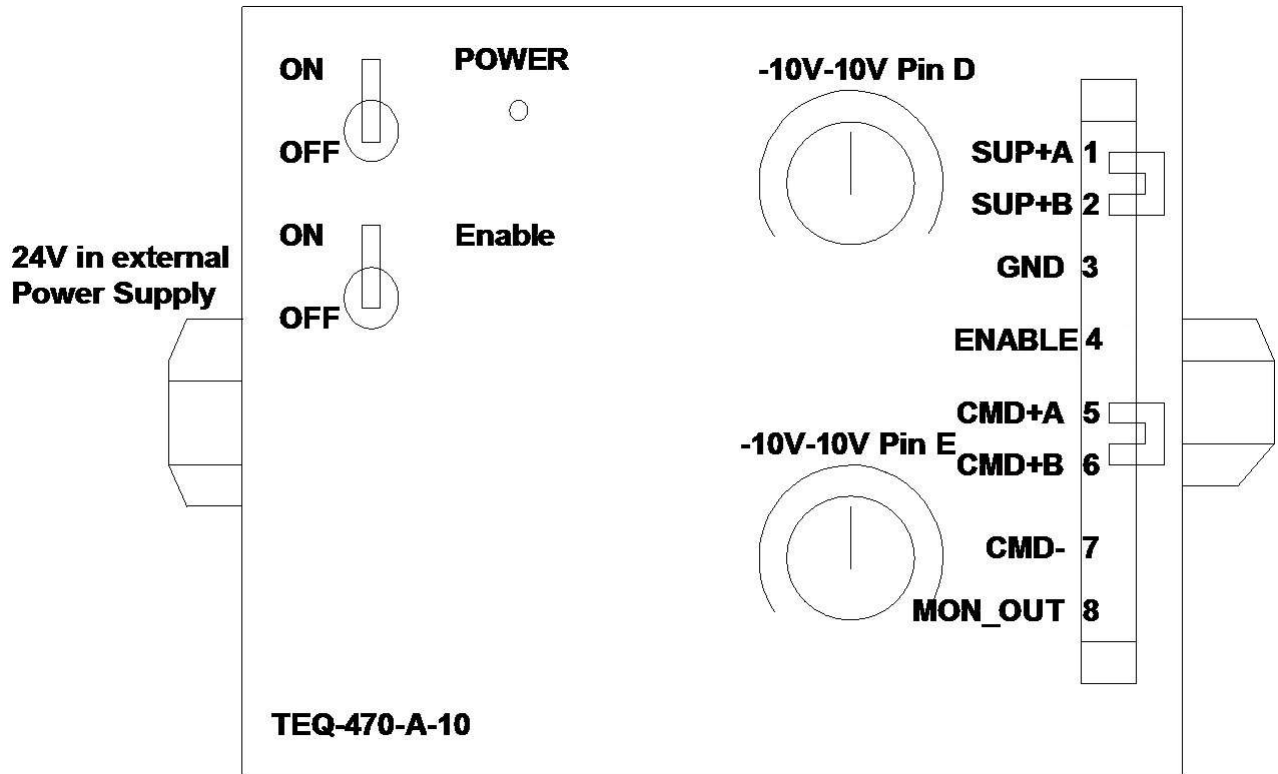
- Power supply with wide range input (100V to 240V AC)
- Provision for +/-10V voltage command on the positive and negative valve command input
- Provision for +/-20mA current command
- Potentiometric knobs to set the command values
- Switch to drive the Enable signal
- Breakout bus bar to measure all voltages and currents on the 7 pin Amphenol connector

Contents:

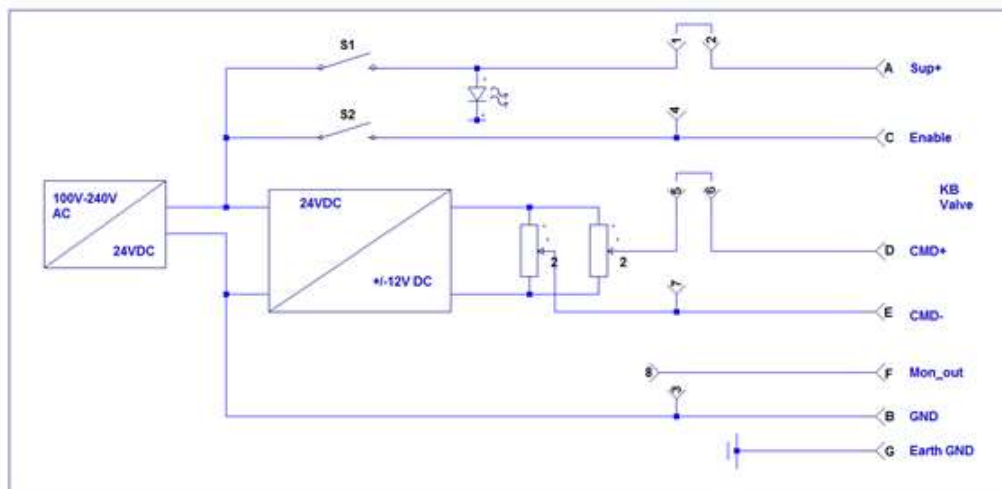
- Test box with command circuit, breakout terminals and switches
- Wide voltage power supply
- Robust and watertight carrying case 27x24x17 (W x D x H)



Front Panel:



Block Diagram:



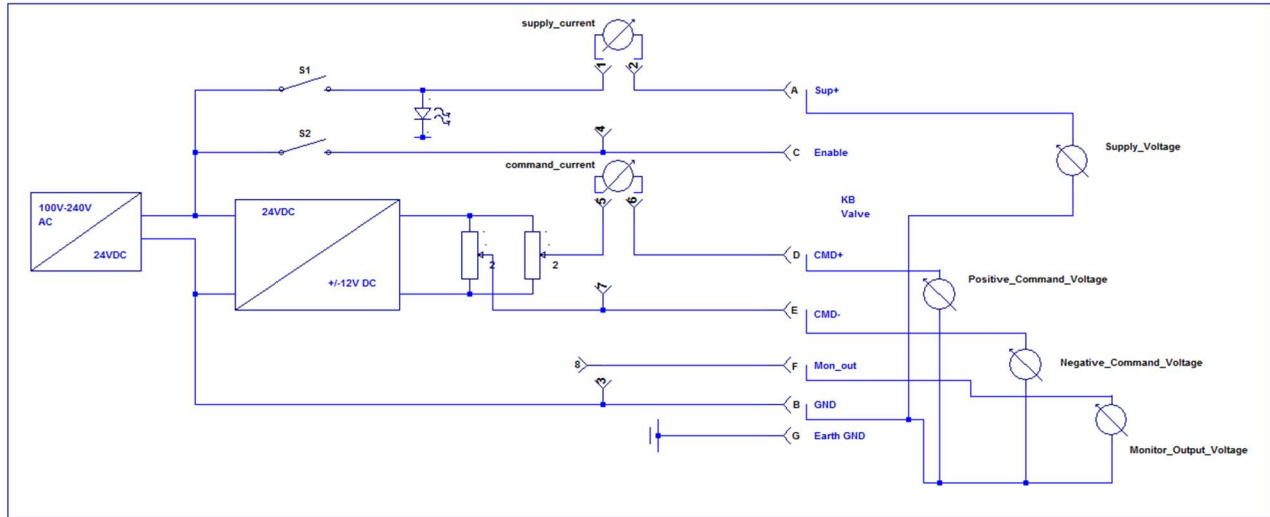
Electrical Specifications:

Power Input Voltage		100V to 240V AC 50/60 Hz
Valve supply		24V/ 2.5A
Short Circuit Protection		Yes
Command Signal	Voltage Command	+/-12V 25mA
	Current Command	-20mA to 0mA or 0mA to +20mA
Valve connector		
Header	7 pin Amphenol connector	
1	A	24V supply
2 (jumper connection)	A	
3	B	Ground
4	C	Enable on=>24V
5	D	CMD+
6 (jumper connection)	D	
7	E	CMD-
8	F	Monitor O/P

Mechanical Specifications:

Housing:	Dust proof, Color: black
Dimension:	23.6cm x 15.5cm x 18.3cm (9.3" x 6.1" x 7.2")
Operating Temperature range :	0 to 40°C

Valve Test Procedure:



Operating the valve with analog voltage command (M1)

- Plug in the power supply, plug in the valve
- Turn S1 on to power up the valve
The LED should turn on
The valve LED should turn on
- Set potentiometer 2 to 0V, measure between 3 (GND) and 7 (CMD-)
- Vary potentiometer 1 to +/-10V, measure between 3 (GND) and 6 (CMD+ out)
- Check if the valve is operating by measuring the monitor output between 3 (GND) and 8 (Monitor out)

Operating the valve with analog current command (M2)

- Same basic operation as voltage command. Set the valve in to M2 mode via ProFX.
- Now CMD+ is a 4mA to 20mA input with a 100Ohm internal resistance. CMD- is connected to ground.
- Set potentiometer 2 to 0V, measure between 3 (GND) and 7 (CMD-) to limit the current into that pin
- Vary potentiometer 1 to +/- 20mA, to measure the exact current, remove the jumper between 5 and 6 and insert a DVM in current mode.

Available Models:

Modelcode: EHA-TEQ-470-A-10
Partnumber: 107EC99003A
Description: Industrial CANbus Valve Test Box Kit

Modelcode: EHA-TEQ-471-A-10
Partnumber: 107EC99004A
Description: Industrial Valve Test Box Kit

Available Accessories:

None