EAP EVALUATION KIT

Quick Start & User Manual

WHAT'S IN THE BOX

Driver & control enclosure	Actuator viewing case	Interconnect cable	Power cable	This manual

BEFORE YOU START

This kit contains high-voltage electronics. Read the safety notice on page 2 before unpacking or connecting the kit.

IN THIS GUIDE

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SAFETY NOTICE

Read this before you unpack or connect

DO NOT OPEN OR DISASSEMBLE THE ENCLOSURES

The driver enclosure and actuator case contain high-voltage circuitry, even when disconnected from power. There are no user-serviceable parts inside.

High voltage inside.

Internal voltages can remain present after power is switched off.

Disconnect power before moving the kit.

Always switch off and unplug before repositioning or storing it.

Keep dry.

Do not use or store the kit in humid or wet environments.

Important note:

The EAP Evaluation Kit does not, and is not intended to, comply with any applicable safety regulations, even if known to Datwyler, and no quality control has been and will be applied. Datwyler thus provides no safety guarantees of whatever nature, and the Customer is fully aware of this. The Customer is further aware of the inherent risks related to the use of the EAP Evaluation Kit, in particular the application of high voltage, and exclusively uses the EAP Evaluation Kit at its own risk. Datwyler does not give any assurances, neither in terms of functionality, safety nor other characteristics or features. Any and all warranty is excluded to the fullest extent permitted by law.

The EAP Evaluation Kit does not constitute (i) a "*product*" within the meaning of the Swiss Federal Act on Product Safety (*PrSG*), the Swiss Federal Act on Product Liability (*PrHG*) and related legislation, (ii) a "*consumer product*" within the meaning of the U.S. Consumer Product Safety Act (*CPSA*) and related legislation, and (iii) a "*product*", "*consumer product*" or the like under any other applicable legislation, rules and regulations, and it shall not be deemed to be "*made available, placed or otherwise put into service on the Union market*" within the meaning of the 'Blue Guide' on the implementation of EU product rules 2022 (2022/C 247/01) and related applicable legislation, rules and regulations, as all of them mentioned in this paragraph may be amended from time to time.

Should any of the aforementioned legislation, rules and regulations nevertheless apply to the use of the EAP Evaluation Kit, the Customer shall immediately (i) notify Datwyler and (ii) return the EAP Evaluation Kit to Datwyler, but in any event before using it; if Customer has already started using the EAP Evaluation Kit, it shall immediately stop such use. Datwyler fully waives any responsibility in this regard to the fullest extent permitted by law.

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Any and all liability on the part of Datwyler for any damages or malfunction of the EAP Evaluation Kit as well as for all other damages of whatever nature which may result from the use of the EAP Evaluation Kit, including without limitation damages to the property of the Customer and damages of third parties, shall be explicitly excluded to the fullest extent permitted by law. The Customer is fully responsible for compliance with all applicable legislation, rules and regulations, including without limitation with the ones mentioned hereunder and any federal or state laws in the United States, and in particular with the obligation not to make available, place or put into service the EAP Evaluation Kit on the Union or on any other (consumer) market, or in any state in the United States, and shall fully indemnify Datwyler against any and all third party claims.

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STEPS 1-3

Setup

STEP 1	STEP 2
Unpack	**Power on**
Place the driver enclosure and actuator case on a flat, dry surface.	Connect the power cable and switch the driver on. Screen lights up and stack goes through autotuning procedure.

YOUR KIT, CONNECTED

Driver

Actuator case

Reminder: never open either enclosure. See the safety notice on page 2.

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STEPS 4-5

Operate

STEP 3

Trigger the actuator

Press the button on the driver enclosure or open the software GUI on your computer and click Actuate. Alternatively you can twist the knob to slowly move the actuator.

STEP 4

Watch it move

Look through the actuator case window. The elastomer stack visibly contracts, then releases. Pressure on the rod changes as you move it side-to-side.

Prefer software control? Download the Control & Visualization GUI to drive the actuator and log data from your computer.

STATUS

Off
No power. Check the power cable and switch.

Solid amber
Powered and ready. Kit is ready to actuate.

Blinking amber
Actuating now - driving the stack.

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