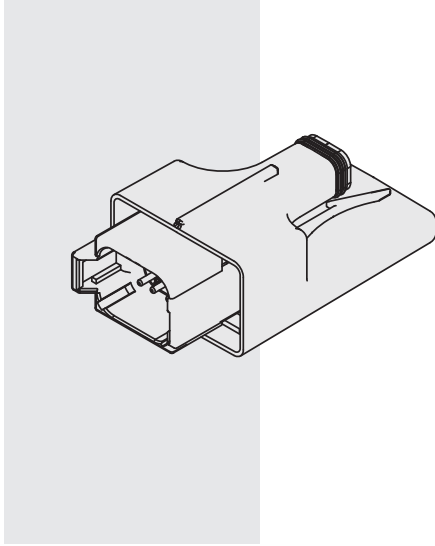


## EVDR-0201A Dual/Single Valve Driver, Plug-In Style



### DIAGNOSTIC FEATURES

Any supply voltage below 8.5 Vdc causes the controller to default to the valve-off mode.

The driver output drops and holds at the inactive stand-by condition. Any short or open circuit condition is automatically detected as an error.

When the fault is corrected, the controller will return to standard operation.

### MULTIPLE PERSONALITIES

The EVDR controller is available in multiple configurations (personalities) to suit the needs of specialized applications. Visit [www.hydraforce.com](http://www.hydraforce.com) and choose the one that best fits your needs. All are configured with *HF-Impulse* software.

**EVDR-0201A** - General Purpose

**EFDR-0201A** - Fan Drive Applications

### DESCRIPTION

A compact plug-in style, microprocessor based valve driver designed for use in hydraulic proportional valve applications. Configurable to drive either one or two coils using SAE J1939 CAN input or an independent signal. The **EVDR-0201A** proportionally controls one or two coils to a user-defined metering profile. The profile provides either a straight-line or multi-sloped output that you configure with *HF-Impulse* software: an easy to use, web-accessible configuration tool available as a free download at [www.hydraforce.com/electronics](http://www.hydraforce.com/electronics). Two output LEDs are located on the front - see *Dimensions and Mounting* on reverse.

### OPERATION

The controller accepts input from commonly available analog or SAE J1939 CAN operator interface devices (joystick, potentiometer, sensors, etc.) The input signal drives the output current to the user-defined ramp rate, enabling accurate and proportional metering of the hydraulic valve. As the input changes, the output follows the defined metering profile, allowing optimum system response. You can configure the unit for direct valve operation. Built-in diagnostics detect fault conditions that automatically deactivate the outputs. The controller has two LED output indicators.

### RATINGS

**Operating Temperature:** -40 to 85 °C (-40 to 185 °F)

**Molded Enclosure Dimensions:** 46.7 mm (W) x 87.8 mm (H) x 34.0 mm (D);  
1.84 in. (W) x 3.46 in. (H) x 1.34 in. (D)

**Mating Connectors:** Deutsch DT06-8SA and DT04-2P

**Power Requirements:** 9 to 32 Vdc

**Control Inputs - Analog:**

**Voltage:** 0 to 5 or 0 to 10 Vdc

**Current:** 0 to 20 or 4 to 20 mA

**Resistive:** 0 to 6000 ohms

**Temperature:** ERT 120 (HydraForce temperature sensor)

**Control Inputs - Digital:**

**Switch:** Switch to battery, switch to open, switch to ground

**PWM:** 0 to 100%, 60 to 5000 Hz

**Frequency:** 60 to 10 000 Hz

**Control Inputs - CAN:**

**J1939:** PGNs 61440 to 65535

**Control Outputs:**

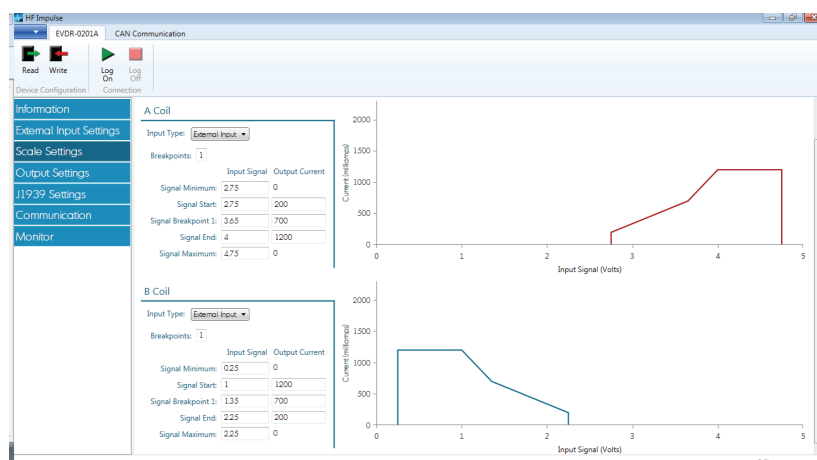
**Current:** 0 to 2000 mA; **PWM:** 0-100% duty cycle; 40 to 400 Hz

**Output Indicator:** Two LED

**Sealing:** IP69K rated

**Weight:** 0.079 kg (0.175 lb) without connectors

### CONFIGURATION EXAMPLE

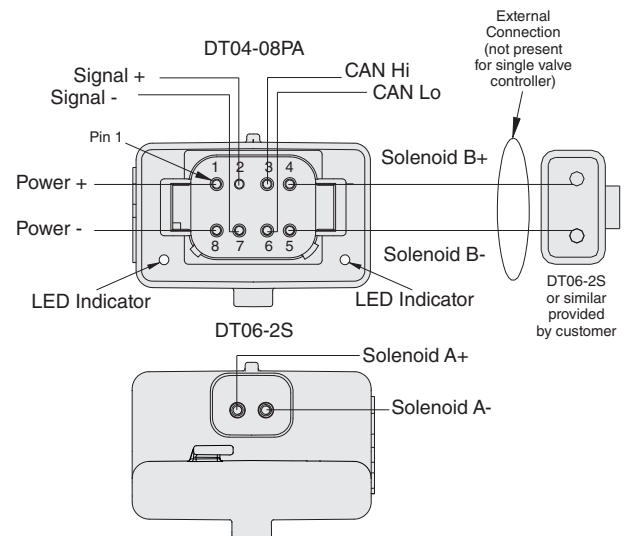


# General Purpose

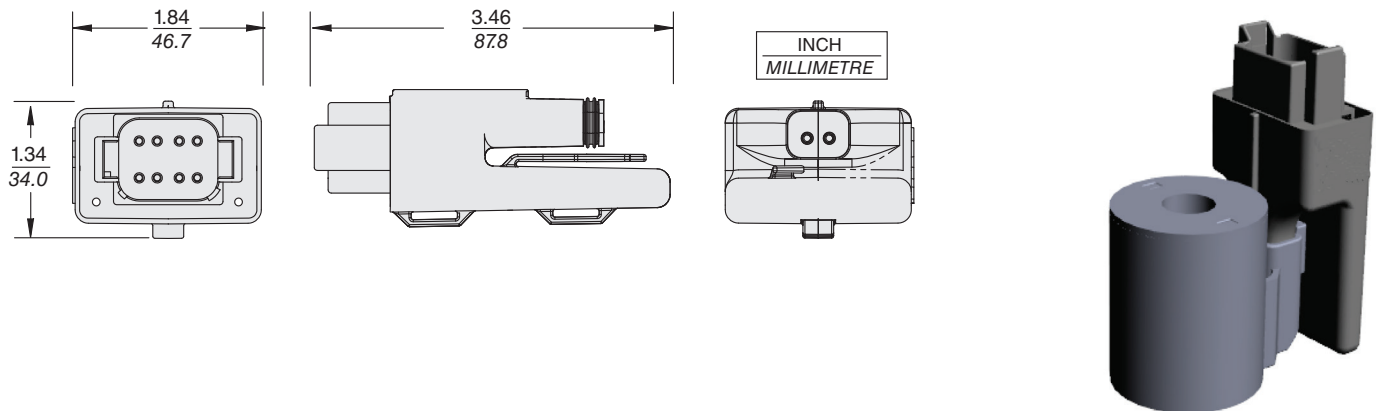
# EVDR-0201A

## CONNECTIONS & WIRING

Description	Interface	Pin	Mating Connector
Battery	Power + Power -	1 8	DT06-08SA
Voltage/Current/ Resistance/ Control Signal	Signal in Gnd	2 7	
CAN/J1939 Communication	CAN_HI CAN_LO	3 6	
External Solenoid	Sol B + Sol B -	4 5	
Integral Solenoid	Sol A + Sol A -	1 2	DT04-2P



## DIMENSIONS & MOUNTING



EVDR-0201A Valve Driver shown installed on coil

## TO ORDER

Dual/Single Valve Driver Model EVDR-0201A — Part No. 4204700

EVDR-0201A Configuration Software - HF-Impulse - free download from [www.hydraforce.com/electronics](http://www.hydraforce.com/electronics)

Connector Kit - Part No. 4001955

Test Harness: Part No. 4000304

USB-CAN Adaptor: Kvaser Leaf Light (Part No. 4000371) [www.kvaser.com](http://www.kvaser.com)

Temperature Sensor: ERT 120 (Part No. 4206200); Mating Connector Kit for ERT 120 Temperature Sensor: Deutsch Model DTM06-2S (HF Part No. 4001970)

**IF CONVERTING FROM EVDR1 to EVDR-0201A:**

Conversion Harness: Part No. 4000426

Wiring instructions are available from [www.hydraforce.com/electronics](http://www.hydraforce.com/electronics)