

Programmable Injector Driver

DI-BOT

Description

Southwest Research Institute's® programmable injector driver BOTTM (DI-BOT) is an advanced injector driver capable of driving four injectors and two auxiliary loads with fully programmable current waveforms. The auxiliary channels provide the ability to drive devices such as high-pressure fuel metering pumps. Optically isolated inputs allow any controller to actuate advanced injectors.

Features

- · Programmable injector currents
- Programmable auxiliary currents
- Programmable boost voltage
- CAN (Controller Area Network) programmability
- 40-pin sealed Deutsch connector
- · Test cell and vehicle mountable

Outputs

- Four injector channels
- · Two auxiliary channels

Inputs

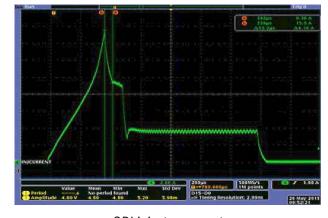
- · Optically isolated inputs
- CAN Programming
- 12 inputs to allow flexible configuration

Injector Configurations

- · Boost-peak-hold
- · Peak and hold
- 72V maximum boost voltage
- · Diesel injectors
- · Gasoline direct injectors
- · High or low impedance

Custom Configuration

- · Custom current profiles
- Low side drive input
- Push-pull input



Gasoline or

Diesel Injectors

GDI injector current

Each SwRI BOT™ system is highly customizable to meet unique customer needs. The standard configuration in this data sheet is the expandable foundation for your prototyping solution.