



CURINSCOPE

General

- High current actuator driver and measurement module for automotive industry
- For actuator designers, test bench designers and managers

Functionalities and Advantages

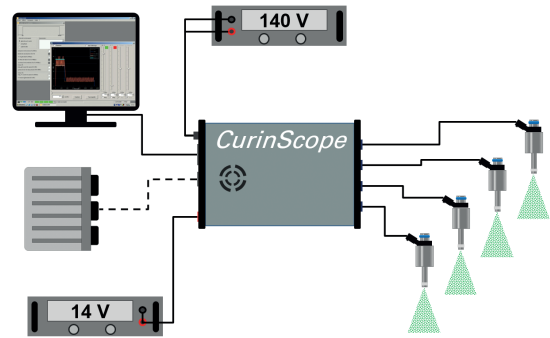
- 4 actuator controllers (max. 50 A) or 2 H-bridge drive with current regulation
- 4 digital or analog inputs
- 4 On-Off outputs with current measurements (in option)
- Stand-alone operation
- PC communication via RS485 serial link (adapted to noisy environment)
- PC communication is also available in USB
- Fan cooling system with default detection (inactive outputs)

Injector Specific Capabilities

- Up to 4 injector controls
- Current profile definition (I_{min} and I_{max} current, time intervals)
- 2 μ s current regulation
- Measurement and visualization of drive current

Principle

Parameterized through PC software, CurinScope controls actuators with its DSP. It is synchronized either by its own quartz, or by a configurable external trig (using the digital/analog inputs) for use with standard engine ECU. CurinScope permanently acquires input and output measurements. The PC software allows real time acquisition and the visualization of CurinScope measurements.



Technical Specifications

Power outputs	Maximum current	50 A	For each output
	Clamping voltage	150 V	Adjustable with PC software
	Conduction duty factor	15 % max	For triangular wave shapes
	Time resolution	2 μ s	
External actuator supply	Maximum supply voltage	125 V	
Power supply	Supply voltage	8 to 18 V	
	Security	Permanent fan cooling system with default detection	
Measurements	Output current	0 to 50 A	For each output
	Output voltage	0 to 150 V	For each output
	Analog digital inputs	0 to 48 V	For each output
	Measurements resolution	12 bits	
Serial link	Type	RS 485	USB also available
	Transmission speed	1 Mbits/s	
Environment	Operating temperature	0° to 60°C	
	Altitude	6000 m	
	Vibrations	Compatible with engine compartment vibrations	
	(These characteristics are obtained by design, they are not tested)		
Overall dimensions	W220 x D165 x H52 mm		
Connections	Power supply	2 banana plugs	
	Actuator supply	High voltage circular male plug	
	Actuators	8 banana plugs	
	RS485	Male SUB-D9 plug	
	External trigger	Female locked plug	