



CUBASCOPE

General

- Actuator driver and measurement module for automotive industry
- For actuator and ignition coil designers, test bench designers and managers, quality control on production line

Functionalities and Advantages

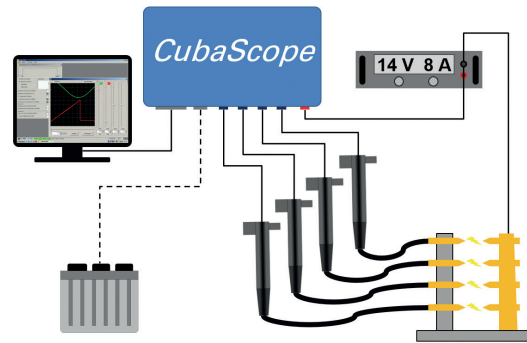
- 4 actuator controllers (max. 20 A) with voltage and current measurements
- 4 logic outputs with current measurements
- 4 digital or analog inputs
- Stand-alone operation
- PC communication via RS485 serial link (adapted to noisy environment)
- CubaScope is available in metal box or DIN rail plastic box

Ignition Specific Capabilities

- Up to 4 ignition coil controls (with or without electronic driver)
- Ignition mode management (static or wasted spark, multi-spark, etc.)
- Adjustable cut-off current (via software)
- Adjustable clamping voltage (via software)
- Measurements and visualization of primary current and voltage curves
- Coil defect detection

Principle

Parameterized through PC software, CubaScope controls actuators with its DSP. It is synchronized either by its own quartz or by external trig. CubaScope permanently acquires inputs and outputs measurements. The PC software allows real time acquisition and the visualization of CubaScope measurements. The ECU supports downloading of customer software.



Technical Specifications

Power outputs	Maximum current	20 A	For each output
	Clamping voltage	100 to 500 V	Adjustable with PC software
	Conduction duty factor	15 % max	For triangular wave shapes
	Time resolution	2 μ s	
Logic outputs	Maximum current	500 mA	For each output
	Output voltage	5 to 48 V	Adjustable with PC software
Power supply	Supply voltage	8 to 48 V	
	Security	Overheat detection on each power output Short circuit detection on each output	
Measurements	Power output current	0 to 20 A	For each output
	Power output voltage	0 to 500 V	For each output
	Logic output current	0 to 500 mA	For each output
	Analog or digital inputs	0 to 48 V	For each output
	Measurement resolution	12 bits	
Serial link	Type	RS 485	Up to 32 CubaScope on the same link
	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)		
Dimensions	Lab version:	DIN Rail version:	
	W171.5 x D120.6 x H56 mm	W45 x D114.5 x H99 mm	