

# AUTRONIC 500R CDI

4 Channel direct fire Capacitor Discharge Ignition system

2 Channel simultaneous discharge

2 Power settings Second spark capable

Tacho output



## AUTRONIC 500R CDI Configuration overview

Feature	Configuration (for HF suffix serial numbers)
4 Output channels	Direct fire non-waste spark on up to 4 cylinder engines Direct fire on 2 rotor rotary engines Waste spark fire on up to 8 cylinder engines (4-stroke only)
2 Internal ignition units for simultaneous or split triggering of two output channels	Twin spark plug per cylinder engines or rotary engines Split timing between plugs in same cylinder or rotor
Two output power levels selectable by either switch or ECU control	Low power 1st spark - 100 mJ High power 1st spark - 125 mJ
Second spark at low RPM	Second spark capability (RPM/Simultaneous/Split dependent) Can be inhibited by trigger signal pulse time if required
Triggering by -ve (negative) signal edge	Same triggering as most conventional transistor type ignition modules
Tacho output	12v square wave for electronic tachometers
EMC compatibility (C-Tick compliant)	Shielded / twisted cables NOT required for installation

## AUTRONIC 500R CDI Detailed Specifications

Output Voltage and Energy per spark @ 13.8v minimum supply voltage (HF serial numbers)	1st spark Low power 1st spark High power 2nd spark either power	450 volts, 100 mJ (8 cyl to 18000 RPM) 500 volts, 125 mJ (8 cyl to 18000 RPM) 325 volts, 55 mJ
Second spark @ 13.8v minimum supply voltage (HF serial numbers)	2nd spark occurrence 2nd spark position	≈ 0.65 msec after 1st spark ≈ 10 deg after 1st spark @ 2400 RPM
Power Supply - Voltage	Normal operation  Supply limits	12v DC minimum (for 8 cyl to 16000 RPM) 6.2v to 20v DC continuous +/- 23v (5 minutes) +/- 80v (0.5 second) +/- 1000v inductive spike (10usec)
Power Supply - Current	Off Engine stopped At maximum spark rate	< 10 uA < 200 mA < 13 Amp
Operating temperature range	Min to Max	-25 deg C to +85 deg C
Dimensions	Case Overall	180 * 140 * 50mm 200 * 140 * 50mm
Weight		0.75 kg
Connector		18 way splash & dust proof