

# CD200

## 12–24 VDC POWERED IGNITION SYSTEMS

- Universal, low-cost, microprocessor-based industrial systems for 1- to 16-cylinder engines
- Programmable configuration to select the feature set appropriate to the application
  - Timing curves vs. RPM or analog signal
  - Selectable spark energy
  - Individual cylinder timing adjustment
  - Adjustable overspeed trip
- Comprehensive diagnostics for troubleshooting
- Windows™-based terminal program for configuration and monitoring
- Modbus RTU communications and monitoring
- CSA-certified for Class I, Division 2, Groups C and D, T4 when used with shielded versions of harnesses and coils
- Patented technology: U.S. Patent No. 5,623,209

The Altronic CD200 Series are high energy, digital, capacitor-discharge ignition systems designed for use on 1- to 16-cylinder industrial gas engines. Available in unshielded (70 Series) and shielded (80, 90 Series), these DC-powered systems eliminate maintenance-intensive mechanical distributor ignition systems. With no moving parts, they employ microprocessor technology to provide high-end control features and operational flexibility across the range of suitable applications.

All CD200 units process angular position input signals from a magnetic pickup which senses drilled reference holes or protrusions on a steel disc. Series 90 also supports the use of a Hall-effect pickup with a magnet disc allowing it to be used as a replacement for the Altronic DISN series. These provide accurate and consistent ignition timing referenced directly to the engine's crankshaft or camshaft. Use of high energy, capacitor-discharge (C.D.) technology, proven in hundreds of thousands of natural gas engine applications worldwide, provides maximum engine performance and can often extend usable spark plug life by three to five times compared to an inductive ignition system.

A Windows™-based terminal program gives users access to the entire range of CD200 features, including adjustable output energy, automatic timing adjustment curves (based on RPM or an analog control input such as a load sensor), and the overspeed setpoint. Using this approach, the user can implement those specific features required for a particular application. This software package also displays the system primary and secondary discharge diagnostics. For simple use in the field, these same diagnostics are available to the local operator via a flashing LED on the unit. Remote communications and monitoring via Modbus-RTU are also standard.



CERTIFIED  
CLASS I, DIVISION 2,  
GROUPS C and D, T4

when used with shielded  
versions of harnesses and coils

80 Series  
(shielded)

90 Series  
(shielded)

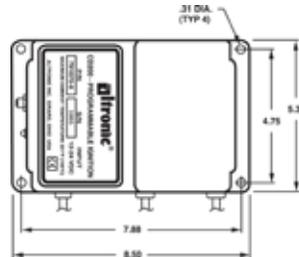
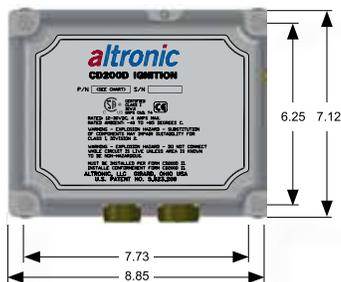
70 Series  
(unshielded)



# CD200 COMPONENTS

COMPONENT	CD200-70	CD200-80	CD200-90
CD200 Unit, 4-output	791071-4		
CD200 Unit, 6-output	791070-6	791080-6	
CD 200 Unit, 8-output	791070-8	791080-8	791090-8
CD200 Unit, 12-output	791070-12		791090-12
CD200 Unit, 16-output			791090-16
Input Harness, 72" unshielded	793050-1		793106-4 (MPU) 793105-4 (HE)
Input Harness, 120" unshielded		793092-1	793106-5 (MPU) 793105-5 (HE)
Input Harness, 180" unshielded	793050-2		793106-7 (MPU) 793105-7 (HE)
Input Harness, shielded		793091-1	793104-1 (MPU) 793103-1 (HE)
Output Harness, 72" unshielded	793048-6, -8 (+ 793099-1 for -12)		
Output Harness, 180" unshielded	793090-6, -8 (+ 793099-2 for -12)	793008-6, -8	793012-8, -12, -16 (180°)
Output Harness, 180" shielded	793050-2	793014-6, -8	793015-8, -12, -16 (180°) 793023-8, -12, -16 (90°)
Hall-effect Pickup			791050-1 (5/8"-18 x 1.75") 791050-2 (5/8"-18 x 2.50") 791050-4 (5/8"-18 x 4.50")
Hall-effect Pickup Cables			Included in Input Harness above
Magnetic Pickup	791015-1 (3/4"-16 x 1.9") 791016-2 (3/4"-16 x 3.4")		691118-1 (5/8"-18 x 1.75") 691118-2 (5/8"-18 x 2.50") 691118-3 (5/8"-18 x 3.00") 691118-4 (5/8"-18 x 4.50")
Magnetic Pickup Cables, unshielded	Included in Input Harness above		Included in Input Harness above
Magnetic Pickup Cables, shielded			593048 Series (180°) 593054 Series (90°)
Ignition Coils, unshielded	501061 591010 591040		501061 591010 591040
Ignition Coils, shielded			501061-S shielded 591010-S shielded 591007 integral 591011A integral 591011B integral 591011C integral

## Dimensions



## Specifications

- No. of cylinders ..... 1-16
- Power required ..... 12Vdc, 3.5Amp,  
24Vdc, 2Amp
- Max. voltage output ..... 40kV
- Spark duration ..... 300-600 microsec.
- Timing adjustment:
  - Manual (8-pos. switch) ..... user-selectable increments
  - RPM range ..... 25 to 2,500RPM
  - Analog input range ..... 4-20mA or 0-5Vdc
  - Overall max.timing range ..... 25° of retard
  - Overspeed setpoint range ..... 25 to 2,500RPM
  - Output switch rating ..... 0.5Amp, 32Vdc max.
  - Communications ..... Modbus RTU (RS-485)

# ALTRONIC

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