



1100 GEORGIA A VE. DUFF PARK, TEXAS 77536-2522
(281) 930-0060 (800) 324-7223 FAX (281) 930-0952
(GREATER HOUSTON AREA)

S-8988 AIR/FUEL CONTROL PANEL

Altronic Controls, Inc.

Panel is a weatherproof enclosure, NEMA 3, designed for outside use, with front and rear access. The front door has a clear viewing window. Enclosure is powder-coated steel ANSI 61 grey. A fixed insert mounted on shock mounts is used for mounting display instruments and operational devices.

The Altronic EPC-200C Engine Performance controller is designed to maximize engine performance and efficiency, typically on larger, fuel-injected engines. The microprocessor based EPC-200C electronically controls ignition timing and air/fuel ratio: thus replacing the traditional pneumatic control systems dedicated to these functions.

Engine RPM plus up to four other analog inputs can be used as control variables. Typically these will be fuel manifold pressure, air manifold pressure, and air manifold temperature are used as the primary control variables. Outputs include two 4-20 ma signals. The first is used for turbocharger by-pass (wastegate) control and the second as a timing control signal for use in conjunction with and Altronic CPU ignition. RS-422 serial communications port for remote monitoring. The controller has a LCD display and keypad for operator interface.

I/O to EPC-200 CONTROLLER

ANALOG INPUTS

- Engine fuel gas manifold pressure - by pressure transducer in panel (0-50 psig)
- Engine air manifold pressure - by pressure transducer in panel (0-50 psig)
- Engine air manifold temperature - by thermocouple to DSG-1301DUP
(thermocouple and accessories by others)
- Engine exhaust manifold temperature - by thermocouple to DSG-1301DUP
(thermocouple and accessories by others)
- Engine speed - by magnetic pick-up and cable (included and shipped loose)

DISCRETE INPUTS

- Reset signal - engine cranking signal to pressure switch - included in panel

DISCRETE OUTPUTS

- Spare - 10 each



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ANALOG OUTPUTS

- Engine air manifold pressure control signal - 4-20 mA signal to I/P included in panel for 3-15 psig signal to turbo wastegate actuator.
- Engine ignition timing advance/retard signal - 4-20 mA signal to engine ignition system.

(Engine ignition system by others.)

OTHER PANEL FUNCTIONS

- * Cut-out w/ cover plate in panel insert for GOV-10 display module. Display module furnished and installed BY OTHERS.
- * Cut-out w/ cover plate in panel insert for CPU-95 display module. Display module furnished and installed BY OTHERS.
- * SPECIAL - Multi-range I/P provided in panel adjustable to output ranges 3-15 psig and 9-45 psig.
- * 2-1/2 pressure indicating gauge (0-60 psig) - signal to control actuator.
- * 2-1/2 pressure indicating gauge (0-200 psig) - instrument air supply.
- * Supply pressure regulator included in panel, max inlet pressure - 300 psig
- * Selector switch - off/on - mounted on panel insert
- * Tubing to be 316 SS, tube fittings to be 316 SS
- * Customer to furnish 24 VDC, 2.0 amp service for panel power.
- * Customer to furnish instrument quality air to panel.
- * Thermocouples and accessories to be furnished BY OTHERS.

Enclosures, Stands, Inserts, Etc.

- (1) IF-3XXXXX-W Insert, 33-24, Fixed, White Powder Coated Steel
- (1) S302412-PS-G Stand, 30-24-12 Gray
- (1) E332412-PS-DA-G Enclosure 33-24-12, Dual Access, Gray
- (1) Custom cut-out A Cut-out w/ cover plate for GOV-10 display module. Display module furnished and installed BY OTHERS.
- (1) Custom cut-out B Cut-out w/ cover plate for CPU-95 display module. Display module furnished and installed BY OTHERS.

Pneumatic/Pressure device

- (2) K?P-K_SS 2.5" Read Only Pressure Gauge W/ SS Fittings

Pneumatic Accessories

- (2) SS-1RS4_SS Needle Valve, Stainless Steel W/ SS Fittings
- (1) 65852E_SS Model 65A Regulator, 0-125 psi, W/ Mini Gauge & SS Fittings
- (1) 6900GE-# Pressure Switch, Explosion Proof, 1/4 N.P.T.

Temperature device

- (2) DSG-1301DUP 1 Pt. Thermocouple Set Point Monitor, Type J & K, 12-24 DC power, 4-20 mA output

Transducers & I/O Instruments

- (1) 691118-3 Mag. Pickup-5/8-18 X 3"
- (1) 593048-48 Cable Assembly For Mag Pickup
- (1) TCXI 7850-405 EN I/P, 4-20 mA input, 3-15 through 0-60 psig output signal, Div 1/2, w/ SS tube and ftgs

Controller

- (1) EPC-200CD-14 Engine Performance Controller
- (2) AST4300-A-00050-P-3-N-1 Pressure Transducer, 0-50 psig, Eng Fuel Manifold, UL approved Div.2

Electrical Accessories

- (14) UK5N Phoenix Terminal Block - Gray

SINOR ENGINE COMPANY, INC.

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(1) 800H-HR2DXP
(1) GMC-#
(2) 911735

Selector Switch, 2-Position (M-M), 1-contact, 5 amps, Class 1, Div
Glass Fuse & Holder W/ Diode Indicator Lamp
Terminal block w/250 ohm resistor

* Panel is designed for Class 1, Group D, Div. 2 area classification.