

InteliDrive Fire Pump Controller



Description

InteliDrive Fire Pump Controller (FPC) modular engine controller is designed for diesel driven fire pumps applications based on the NFPA 20 standard. The controller utilises the hardware of a standard ComAp industrial engine controller, with a proven track record for flexible and reliable control gas or diesel applications.

The ComAp engine controller has an LCD screen for system information and fault indication, control buttons for switching between automatic and manual operation. Manual operation allows the diesel engine to be started using local buttons on the fascia of the controller or by external buttons on the control panel. Automatic mode of operation provides starting by a remote digital input switch or system pressure switch. The control system incorporates two battery starter systems; the controller monitors the voltage on both battery systems, automatically switching between battery sets on a cyclic basis or low battery voltage condition. The controller has configurable digital inputs and outputs which are set up to suit the installation requirements. Setpoint parameters for engine control and system sequencing are adjustable from the fascia of the controller (password protected).

Benefits

- ▶ Integrated solution – less wiring and components
- ▶ Available Remote Display panel – economical solution for remote control
- ▶ Analog gauge (VDO, Datcon, etc.) outputs – operator friendly
- ▶ History log – easy troubleshooting
- ▶ Pressure regulation loop and Load limitation
- ▶ Smooth engine speed control
- ▶ Less engineering and programming
- ▶ Perfect price/performance ratio



ComAp is a member of AMPS (The Association of Manufacturers of Power generating Systems).



ComAp products meet the highest standards, with every stage of production undertaken in accordance with the ISO certification obtained in 1998.



Selected ComAp products have the UL Certification.

Features

- ▷ Engine control, monitoring and protection
- ▷ Support of engines equipped with Electronic Control Unit (ECU) – J1939 or Cummins Modbus interface
- ▷ 7 configurable binary inputs and outputs
- ▷ 3 configurable analog inputs + 2 analog inputs of battery voltage measurement
- ▷ VDO type analog gauges outputs – 8 configurable channels
- ▷ Selectable protections alarm/shutdown
- ▷ Setpoints adjustable via keyboard or PC
- ▷ 1 level of password protection
- ▷ USB, RS485 or RS232/Modem/Modbus communication
- ▷ Real time clock and event history log
- ▷ Engine speed control by 3 predefined binary inputs, Speed Up/Down binary inputs or one analog input
- ▷ Analog oil pressure, water temperature, fuel level, battery voltage, engine speed (pick-up)
- ▷ Automatic or manual start/stop of the engine
- ▷ Automatic starting sequence based on two batteries according to NFPA 20 standard
- ▷ Push buttons for simple control, lamp test
- ▷ Graphic back-lit LCD display 128 × 64 pixels
- ▷ 6 LED indicators (Alarm, Warning, Not Ready, Running, Battery A, Battery B)
- ▷ Front panel sealed to IP65
- ▷ Power supply 8–36 VDC
- ▷ Operating temperature:
 - -20°C to +70 °C regular unit
 - -40°C to +70 °C low temperature unit
- ▷ IntelliDrive FPC controller meets several standards (EN, UL, CSA, NFPA)

Fire Pump Panel

Battery Charger

The control panel is complete with two 5 amp battery chargers, the chargers are 240 volt primary supplied from a suitable local distribution board (customer arrangement), each charger being complete with “Auto” boost with a “Manual” boost facility from an external digital switch (if required) and compliant with NFPA 20.



MANUFACTURER:

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Communication modules and PC tools

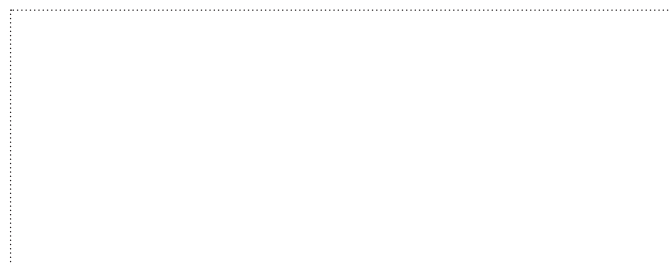
- ▷ **IB-Lite** – Internet/Ethernet Plug-in Module including Web Server
- ▷ **IL-NT RS232** – RS232 Extension Board
- ▷ **IL-NT RS232-485** – Dual Port Extension Board
- ▷ **IL-NT S-USB** – Plug-in Service USB Module
- ▷ **WinScope** – Special Graphical Controllers’ Monitoring Software
- ▷ **LiteEdit** – PC Configuration and Monitoring Tool

Extension modules and remote displays

- ▷ **IGL-RA15** – Remote Annunciator (15 LEDs)
- ▷ **IL-NT AIO** – Analog Input/Output Module (4 × AIN, 1 × AOUT)
- ▷ **IL-NT AOUT8** – Analog Outputs for PWM Gauges Module (8 × AOUT)
- ▷ **IL-NT BIO8** – Binary Input/Output (PWM) Module (8 × BIN or 8 × BOUT)
- ▷ **IL-NT IO1** – Analog Input/Output Module (4 × BIN and 4 × AOUT)
- ▷ **IL-NT RD (SW)** – Remote Display Software



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