CP900 CANplus® SERIES CONTROL PANEL

FOR ELECTRONICALLY GOVERNED ENGINES

The CP900 is LOFA's universal autostart control panel for Electronically or Mechanically governed engines. Its dual transducers allow for more versatile control logic enabling numerous applications. The panel boasts the robust CANplus 35c high-resolution 3.5" QVGA color display that is sunlight viewable and includes an illuminated, tactile, five (5) button keypad.

LOFA's next generation real-time CANplus RT Software powers the CP900, which is Tier 4F and Euro Stage V compliant. The CANplus RT Software features:

- LOFA's patent-pending QR-code diagnostics
- Simplified one-touch access to emission status and control
- Multilevel PIN-based menu access
- Optional LOFA rotary throttle control with "mouse" feature
- Autostart

The CP900's intuitive autostart mode starts, throttles, and stops engines based on configurable criteria that include switches, transducers, date & time scheduler, and timed run.

CP900
(includes optional rotary throttle, LEDs and autostart)

HARDWARE FEATURES

- Inputs:
  - Two (2) autostart switch inputs
  - Two (2) 4-20mA transducer inputs
  - Two (2) fault switch inputs
  - Three (3) resistive sender inputs
- Outputs:
  - Alarm
  - Aux for engine running, autostart, or engine-at-speed

ENCLOSURE OPTIONS

- Compact 8"x6" Aluflex®
- Standard 8"x10" Aluflex®
- Compact 8"x6" NEMA
- Standard 8"x10" NEMA

SOFTWARE FEATURES

- Configuration using menus or through a simple, straightforward Windows-based configuration program
- CANplus interface for engine monitoring and control, supporting all SAE J1939 messages
- Rugged weather-resistant housings with vibration-isolation mounts
- Intuitive user-friendly menus accessible via a high resolution color display
- Configurable increments and ramp rate for throttle controls
- Configurable seven (7) stage autothrottle profile
  - Warm-up time at Idle
  - Ramp-up time to Intermediate RPM
  - Intermediate time and RPM
  - Ramp-up time to Run RPM
  - Run RPM
  - Ramp-down time to Idle
  - Cool-down time at Idle
- Autostart
  - Configurable start and stop events
    - Autostart switch inputs
    - 4-20mA transducer (level, pressure, flow, etc.)
    - 24h/7d/365d scheduled run
    - Countdown-to-off timer
- Autothrottle maintain point
  - Configurable 4-20mA transducer target values to dynamically throttle the engine to maintain a level

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Advanced Engine Control Technology

SPECIFICATIONS

Nominal System Voltage	12—24 VDC
Operating Current	225mA @ 12V
Operating Temperature	-40C to +70C
Display	QVGA graphical high resolution 320 x 240 color TFT LCD. Enhanced LED variable back light ensures total sunlight viewing. Max brightness of 750 NIT.
Reverse Polarity Protection	Yes
CANbus Standard	SAE J1939 (CANBUS 2.0B)
Solid State IO	
ECU/Solenoid Output	10A @ system voltage
Starter Output	10A @ system voltage
AUX Output	Low-side Output (500mA max sink)
Alarm Output	500mA @ system voltage
Resistive Sender Inputs	2 (0—1000 Ohms)
Digital Inputs	4 (2x for autostart, 2x for faults)
Transducer Input	4—20mA
Transducer Power Output	1A @ System voltage
Compact Aluflex®	
Height	7.5″
Width	8.0″
Depth	6.0″
Standard Aluflex®	
Height	10.4″
Width	8.4″
Depth	6.0″
Compact NEMA	
Height	8.0″
Width	8.5″
Depth	6.5″
Standard NEMA	
Height	11.0″
Width	11.0″
Depth	8.0″
Warranty	2 Year Limited Warranty

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