EMC - SINGLE E-FAN BANK CONTROLLER

- HCT encapsulated block, flameproof: designed for harsh environments
- **SAE J1455 Compliant** load dump protection
- **9-32VDC power supply** (*200mA max load current consumption*)
- **Single fan bank output** (*multiple fans if connected in parallel*)
- **1x 0-100% PWM output** (*sourcing or sinking, Max 500mA, short circuit protection*)
- **1x 500mA On/Off output** for reverse or alarm indicators
- **On-Demand** (open-loop) or **Set-Point** (closed-loop) control
- **-40 to +85°C operational**, -60 to +150°C storage
- **NEMA 6P/IP67**
- **CE**, **E-Mark** *check for availability*

GRAPHICAL USER INTERFACE (GUI)

- Simple and easy to use for system **configuration, monitoring**, and **data-logging**
- Free download from HCT website
- Communication via Mini USB A/B
- **PID Set Point** or **On-Demand** configurable
- Setup fan profile and operational logic
- Configure received and transmitted SAE J1939 messages
- **Manual override** for setup and troubleshooting
- Equipped with **standard application data profiles** for quick setup
- **Pre-configured thermistor profiles** for accurate temperature readings.
- **Save and load** customized application profiles
- **OEM password protected**

+ Controller
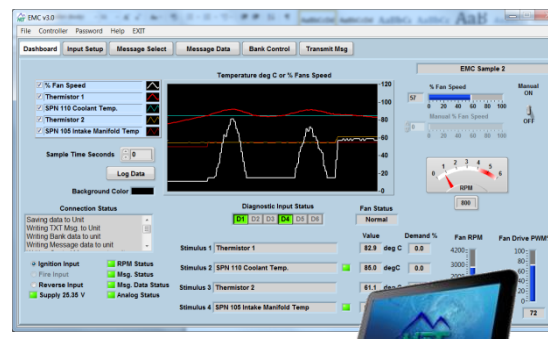- Supply Power
(*9-32VDC, 200mA Max*)

J1939
Data Ready

J1939 COMMUNICATION

- Select or configure up to **6x SAE J1939 CAN Bus values** as inputs
- CAN data rate 250Kbps, 500Kbps or 1 Mbps
- Transmit standard and custom messages as float or integers including:
  - Temperature
  - % Duty cycle demand
  - Fan RPM
  - Diagnostic status
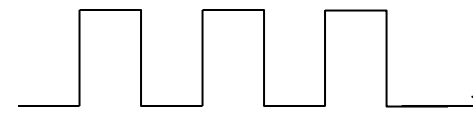 - Engine RPM
  - Supply voltage
  - CAN received messages

Fan Diagnostics

+ Fan
- Supply Power

SMART E-FAN

- Compatible with +12Vdc or +24Vdc brushless variable speed electric fans
- **Reverse** capability for 'Purge' or 'De-Ice'
- **Sourcing & Sinking**
- **Invert duty cycle**
- Customizable for all e-Fan profiles
- PWM frequency software adjustable **33-1000Hz**
- Powered separately from controller

DIAGNOSTICS

- Up to **6x fan diagnostic inputs**

SWITCH INPUTS

- Up to **3x switch inputs**
  - Ignition
  - Fire
  - Reverse

SENSOR INPUTS

- Up to **2x sensor inputs**
  - Thermistor
  - Potentiometer (0-5v)