

ACM1025

EC Interface Module – GENTEQ, NIDEC
MANUAL & ANALOG control – auto select

Overview

The ACM1025 Interface Module (IM) provides auto selectable manual or analog (BAS control interface) for the Genteq 2.3 motor and EON motors. **Designed to fit in a single gang junction box, the front panel provides the customer with manual speed adjust, Status (setpoint), Fault and Power LEDs, and DMM probe jacks for RPM and Set-point readout.** Analog control, 24V power, RPM output, ECM interface, and selectable analog 0, 2-10VDC input are accessed on rear.



Feature Set

1. Single interface for single fan/motor.
2. Single Interface for up to 2 fans/motor
3. Genteq ThinkTank™ 2.3 motor compatible. (GENTEQ 5.0, NIDEC)
4. Compatible with customer-supplied 24 volt transformer
5. MANUAL SPEED ADJUST - keyed/slotted adjustment knob (potentiometer).
6. ANALOG SPEED ADJUST 0-10 or 2-10 VDC input
7. Auto switch between MANUAL or ANALOG speed signal via external speed signal input.
8. Shunt-Selectable external speed adjustment of 0-10VDC or 2-10VDC.
9. **RPM OUTPUT** in mV DC scale. Range 0 to 2000 RPM indicated as 0 to 2000mV, corresponding to a commonly found DVOM range of 2.0V, or 2000mV DC; up to 5000 RPM.
10. **SET-POINT OUTPUT** provides the speed set-point in mV DC scale. Range 0 to 100% indicated as 0 to 1.000V (1000mV).
11. Onboard GREEN LED for system STATUS notification.
12. Onboard YELLOW LED for fault condition notification.
13. Onboard RED LED for power notification.

ACM1025 I/O

1. FRONT (PANEL) Control & Indication

- 1.1. Manual speed potentiometer, slotted face.
- 1.2. DMM probe jacks for DC mV signal output of RPM or Set-point
- 1.3. Green STATUS LED (flashes code for setpoint)
- 1.4. Red POWER LED
- 1.5. Yellow FAULT LED
- 1.6. 3 -DMM Probe jacks: 1) RPM 2)Set-point as mV DC, 3) common reference.

2. REAR (PCB) Control & Indication

- 2.1. 4-pin MTA-100 header for motor connection
- 2.2. External Speed signal input (Quick-Connect 0.25" spade tab)
- 2.3. External RPM signal output (Quick-Connect 0.25" spade tab)
- 2.4. Signal COMMON (Quick-Connect 0.25" spade tab)
- 2.5. 0.1" shunt header pair for selecting 0-10VDC or 2-10VDC external speed input

AIRCARE AUTOMATION INC

Email: info@aircareautomation.com

Website: www.aircareautomation.com

8204 N. Lamar, Suite B-11 Austin, TX 78753.

Tel: (855) 234-9237 Fax: (866) 542-0612

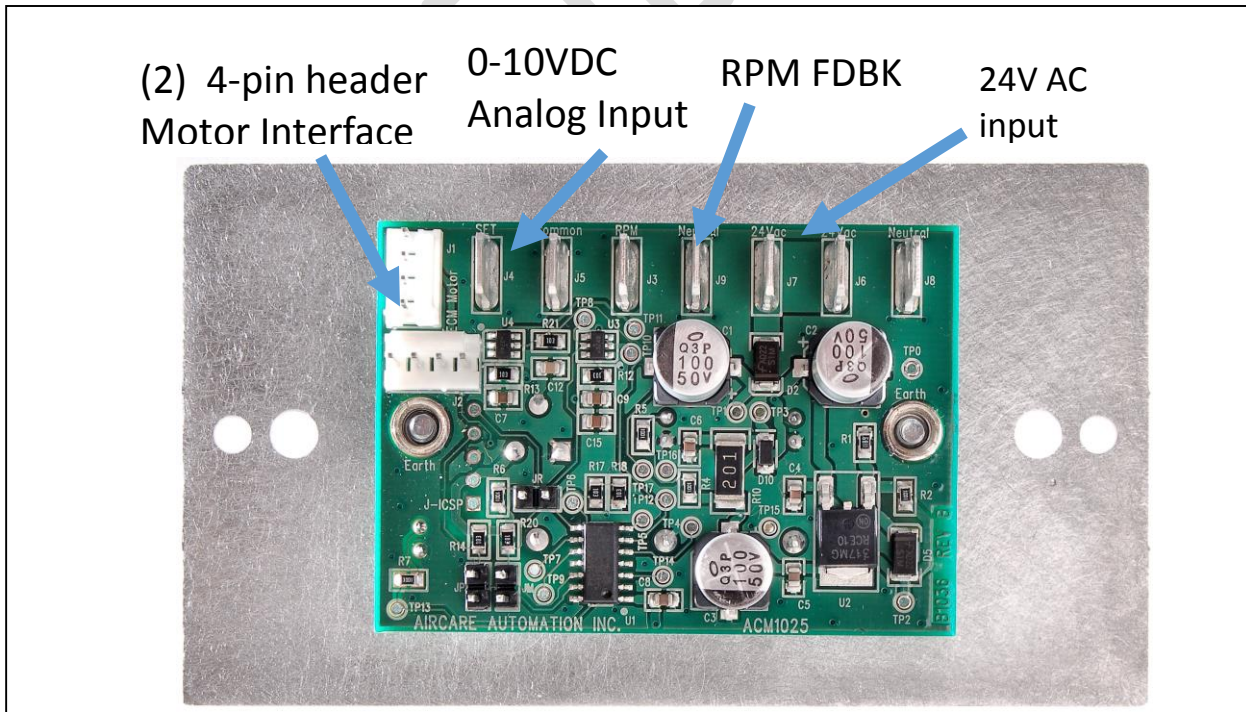
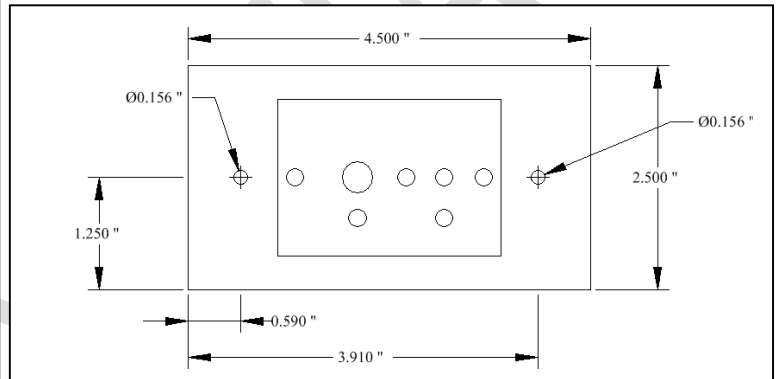
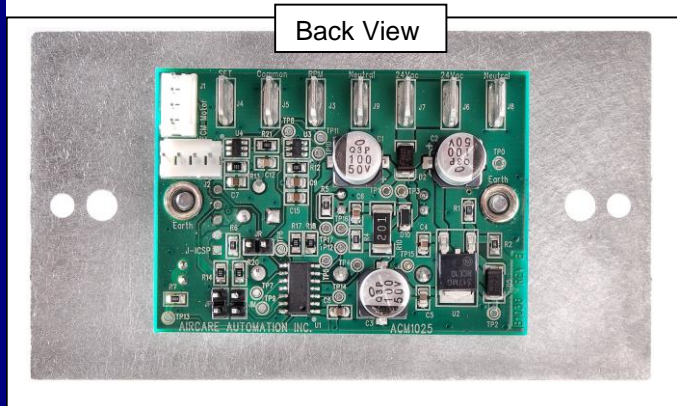
3. REAR (PCB) Power Connections

- 3.1. 24V AC Input and COMMON (Quick-Connect 0.25" spade tab pair)
- 3.2. AUX 24V AC and COMMON (Quick-Connect 0.25" spade tab pair)

Electrical & Environmental Parameters

Parameter	Min	Typical	Max	Units
Transformer Ratings 50/60Hz, 4VA	12	24	24	VAC
Input Voltage Range, DC	14	18	30	VDC
Input Current			25	mA
Ambient Operating Temperature	-18	25	55	°C

Mechanical Dimension



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