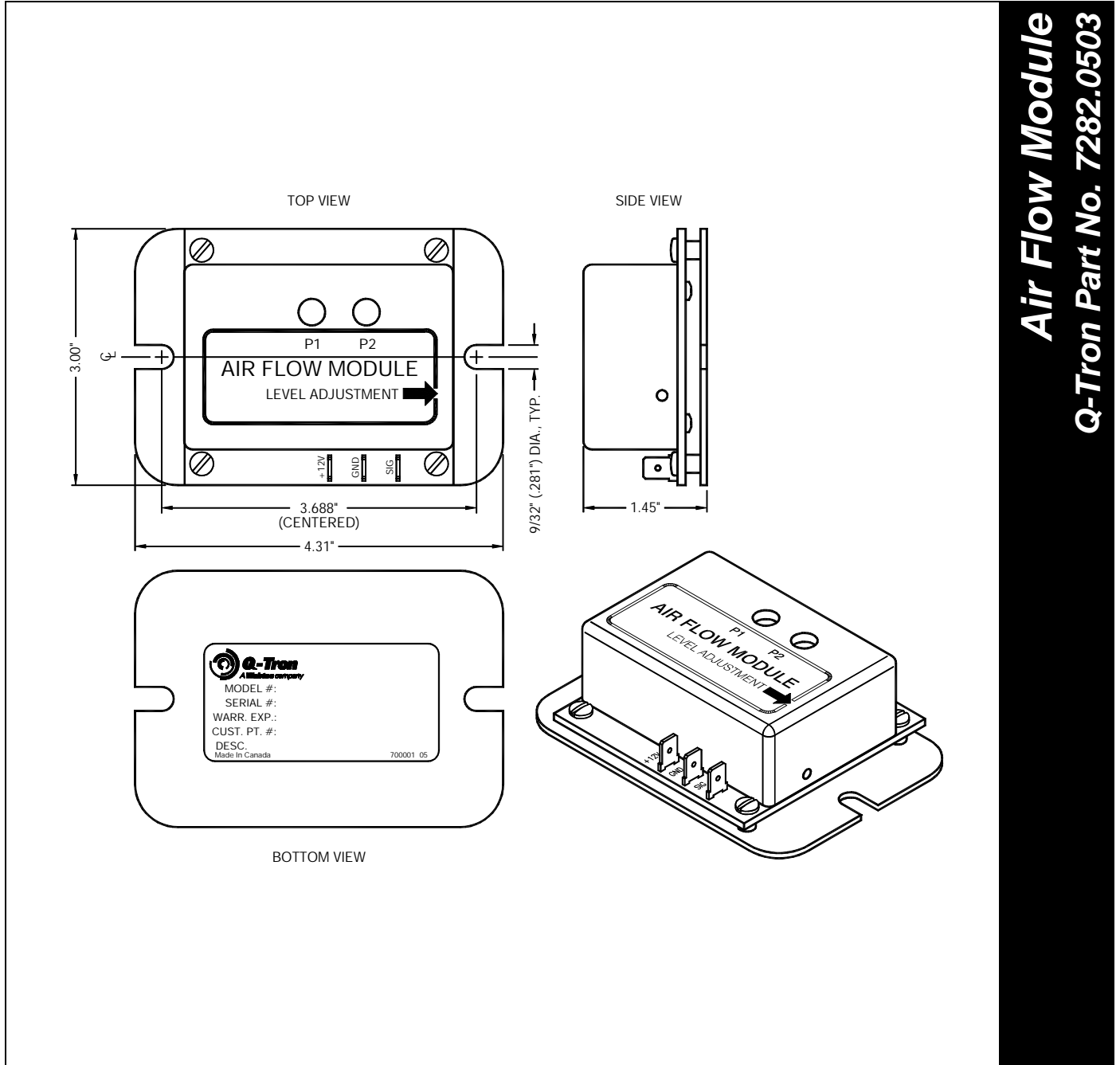


# Air Flow Module

Q-Tron Part No. 7282.0503  
Product Information Sheet



**Air Flow Module**  
**Q-Tron Part No. 7282.0503**

Figure 1. Air Flow Module application



## ***Air Flow Module Specifications***

Q-Tron Part No.:	7282.0503
Weight:	1 lb (0.5 kg)

## ***Operations***

The Air Flow Module operates in conjunction with the Air Flow Interface Panel (Q-Tron Part No. 7240.1102). Together, this equipment monitors the presence of cooling air in the locomotive traction motor air duct(s) to prevent the traction motors from overheating.

## ***Mounting Instructions***

Mount the Air Flow Module (Q-Tron Part No. 7282.0503) in the electrical cabinet.

1. Cut a 2 FT piece of 1/4" OD/3-16" ID plastic tubing (Q-Tron Part No. 68L10403). Insert one end of the tube into the P1 hole in the cover of the module. Leave the other end of the tube hanging in the high voltage cabinet.
2. Cut another piece of plastic tubing. Ensure it is long enough to run from the Air Flow Module to the traction motor air duct. Insert one end of the tube into the P2 hole in the cover of the module. Connect the other end to a fitting installed in the traction motor air duct.

## ***Connection Instructions***

Using 18 Awg, 3-conductor, shielded cable, connect the Air Flow Module +12V, SIG, and GND fast-on tabs to the Air Flow Interface Panel (Q-Tron Part No. 7240.1102). Refer to the Q-Tron system application drawing or the revised locomotive print for complete connection information.

## ***Calibrating the Air Flow Sensor***

1. Use these instructions to calibrate the air flow sensor contained within the Air Flow Module, connected to the Air Flow Interface Panel (Q-Tron Part No. 7240.1102).
2. Apply 74 VDC power to the Air Flow Interface Panel and start the engine.
3. Observe the LED on the Air Flow Interface Panel. This LED should be Off when the engine is Idle.

If this LED is On, locate the set screw access hole on the Air Flow Module cover. Adjust the set screw slowly, turning it counter-clockwise, until the LED on the panel turns Off. **Once the LED turns Off, stop adjusting the set screw; over adjustment can damage the potentiometer.**

If this LED is Off, rev the engine to Notch 2. The LED should be On when the engine is at Notch 2 or higher. If the LED remains Off at Notch 2, locate the set screw access hole on the Air Flow Module cover. Adjust the set screw slowly, turning it clockwise, until the LED on the panel turns On. **Once the LED turns On, stop adjusting the set screw; over adjustment can damage the potentiometer.**

4. Return the engine to Idle and observe the LED on the Air Flow Interface Panel. This LED should be Off when the engine is Idle.
5. Rev the engine to Notch 3. Verify the LED is On and that no alarms appear on the QES 1000/-III MMI screen or QTRAC 1000 LCD screen.
6. Rev the engine to Notch 8. Verify no alarms appear on the QES 1000/-III MMI screen or QTRAC 1000 LCD screen.
7. The sensor is now calibrated. Apply nail polish onto the set screw to secure it, thereby reducing the effects of vibration and the need for recalibration.