

# Rotating Torque Sensors

## V-belt Pulley Wheel [ 01319 ]

This unique pulley torque sensor was designed to replace an existing V-belt pulley wheel used in an HVAC application. By modifying the existing pulley, and integrating a torque sensor, we were able to successfully adapt it to the HVAC machine (see photo below), and allow the customer to accurately measure the amount of power transferred from the electric motor to the driven blower. This particular sensor is capable of accepting various pulley wheels and shaft diameters and features a highly accurate integrated sensing element, capable of resolving low torque levels while being exposed to high radial loads created by V-belt drive systems.



## SPECIFICATIONS

Capacity.....	2000in-lbs
Overload capacity.....	150% of F.S.
Output at F.S.....	2mV/V Non-
linearity.....	0.10% of F.S.
Hysteresis.....	0.10% of F.S.
Zero balance.....	1.00% of F.S.
Compensated temperature.....	70 to 170°F
Useable temperature.....	-65 to +250°F
Temperature effect on zero.....	0.002% of F.S./°F
Temperature effect on span.....	0.002% of Rdg./°F
Bridge resistance.....	1000 Ohms
Excitation voltage, maximum.....	20 Vdc
Maximum speed .....	2000 RPM

## OPTIONS

- Integral angle encoder - 1024 ppr or 60 tooth mag pick-up (requires 10 pin connector)