

Product	AT-5000 EasyApp	AT-4400	AT-7000, Motor Monitor	AT-7400	EFREM, Rotor Health Monitor
Number of Channels	2 units can be used side by side (further units with spacing)	1	Configurable, 2 to 64 typical	Configurable, 2 to many (>600)	2 to 11
Power to Transmitter	Battery	Induction	Induction	Induction	Induction
Sample Rate (Samples/sec)	7812, or 11718	26485	10594 Note*1	37287 Note*1	
Bandwidth	1kHz (optionally 5kHz)	2kHz (optionally 10kHz)	2.65 kHz Note*2	15 kHz	
Resolution	12 bit	16 bit	12 bit	16 bit on dynamic channels	16 bit
Inputs:					
Torque/strain	yes	yes	yes	yes	
Temperature	Type K t/c or external RTD module	RTD	yes	yes	(options for RTD's and field V/I average copper temperature)
Vibration	yes -note*3		yes	yes	
Voltage	yes		yes	yes	Field Voltage
Current			Yes (shunt, Rogowski)	yes	Field Current (from shunt)
Pressure	yes		yes	yes	
Ground Fault			Leakage current monitoring		Ground fault resistance trending
Typical Mounting Note*4	EasyApp Kevlar strap	Clamp-on-shaft collar	End of shaft, or mid-shaft collar packaging	End of shaft, or mid-shaft collar packaging	End of shaft, or mid-shaft collar packaging
Outputs	Analog +/- 10V with adjustable gain and offset	Analog +/- 10V with adjustable gain/offset. Also analog 10kHz +/-5 kHz Frequency output option	Analog +/- 10V or Ethernet digital data, adjustable gain/ offset, and AccuTemp software for Temperature	Ethernet streaming data	Alarm relays, Ethernet, RS232, 4/20mA or voltage options

Notes:

1. The sample rate given in the table is specifically for a 4 channel strain gage configuration. Channel sample rate depends on number and type of channels. See AT-7000 Theory of Operation app note.
2. Bandwidth is selectable at factory. These values assume 4 strain gage signals, and anti-alias bandwidth set to sample rate divided by 4. The AT-7400 has higher sample rate and bandwidth capabilities if needed.
3. Vibration can be measured by use of charge amplifier-to-strain gage adapter add-on external module for AT-5000 or by ICP with additional batteries. For best performance, the use of Accometrics voltage input AT-5000 transmitters is recommended.
4. Mounting: Custom mounting for specific applications is available