Product	AT-5000 EasyApp	AT-4500 EasyApp	AT-4400	AT-7000, Motor Monitor	EFREM, Rotor Health Monitor
Number of Channels	2 units can be used side by side (further units with >1 foot spacing)	1 (further units with >1 foot spacing)	1 (further units with >1 foot spacing)	2 to 88 typical	3 to 28
Power to Transmitter	Battery	Induction	Induction	Induction	Induction
Sample Rate (Samples/sec)	7812, or 11718	26485	26485	10594 See Note*1	varies
Bandwidth	1kHz (optionally 5kHz)	2kHz (optionally 8.3kHz)	2kHz (optionally 8.3kHz)	2.65 kHz Note*2	
Resolution	12 bit	16 bit	16 bit	12 bit	16 bit
Inputs:					
Torque/strain	yes	yes	yes	yes	
Temperature	Type K t/c or external RTD module	RTD	RTD	yes	RTDs and Field V/I average copper temperature
Vibration	yes -note*3			yes	
Voltage	yes	yes		yes	Field Voltage
Current	Yes (from shunt)	Yes (from shunt)		Yes (current shunt, Rogowski coil)	Field Current (from shunt)
Pressure	yes			yes	
Ground Fault				Leakage current monitoring	Ground fault resistance and fault location trending
Typical Mounting Note*4	EasyApp aramid fiber strap	EasyApp aramid fiber strap	Clamp-on- shaft collar	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 Optional: 10kHz +/-5 Frequency output	Analog +/- 10V Optional: 10kHz +/-5 Frequency output	Analog +/- 10V, Ethernet digital data, , AccuTemp software for Temperature	Alarm relays, Ethernet, RS232, 4/20mA or voltage options

Notes:

1. The sample rate per channel 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 or call Accumetrics.

2. Bandwidth is selectable at factory. These values assume 4 strain gage signals, and anti-alias bandwidth set to sample rate divided by 4.

3. Vibration can be measured by use of charge amplifier-to-strain gage adapter add-on external module for AT-5000, by ICP with additional batteries, or with MEMS devices.

For best performance, the use of Accumetrics voltage input AT-5000 transmitters is recommended.

4. Mounting: Custom mounting for specific applications is available