

AMS EZ 1000

Product Data Sheet

EZ1000

Eddy Current Sensor Converter

NOMINAL CONVERTER SUPPLY	PERMITTED INPUT SUPPLY	NOMINAL SUPPLY CURRENT	NOMINAL LOAD RESISTANCE
-24 V DC	-19 to -31.2 V DC	12 mA	100 kohm

Emerson EZ1000 is a eddy current sensor converter in the AMS EZ 1000 range. It supplies and conditions a compatible eddy-current sensor chain for vibration, position and speed-related measurement. Configuration and calibration are performed with the documented AMS Machine Studio tools.

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VERIFIED TECHNICAL DATA

Nominal converter supply	-24 V DC
Permitted input supply	-19 to -31.2 V DC
Nominal supply current	12 mA
Nominal load resistance	100 kohm
Nominal analog output	-2 to -18 V
Output limit span	-1.1 to -22.4 V
Unloaded frequency response	0 to 20 kHz at -3 dB
Supply influence on signal	<20 mV per 10 V
Output ripple	<10 mV RMS
Output resistance	200 ohm

ADDITIONAL PRODUCT DATA

Maximum protected input voltage	-60 V DC
Configuration interface	USB
Nominal system cable length	5 m
Reference calibration target	42CrMo4
Sensor fault threshold	-1.5 V

DOCUMENTED USE SETTINGS

Steam Turbine and Electric Power Generation: Steam Turbine Power Generation.

Oil Refining and Natural Gas Processing: Refinery Compression and Processing.

Chemical Manufacturing and Industrial Process Production: Industrial Chemical Production.

SYSTEM COMPATIBILITY

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PRODUCT EVIDENCE

AMS EZ 1000 manufacturer technical reference

AMIKON PRODUCT SUPPORT

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