

Fluxgate magnetometer KMS-029

32-bit digital



Figure 1: Digital fluxgate connected to KMS-820 acquisition unit.

©2014 KJT Enterprises Inc.

32-bit digital board

Product spec	cification
---------------------	------------

Frequency bandwidth	32 bit ADC: DC ~ 2 KHz Fluxgate sensor: DC – 180 Hz
Sampling rate	Up to 4 KHz customizable & selectable
A/D resolution	32 bit
Input range	-2.5 V ~ + 2.5 V
Input impedance	> 1 Mohm
Communication protocol	SPI interface
Supply voltage	+5V DC
Power consumption	Typical 1 W (fluxgate)
Operating temperature range	-25° to 85° C
Packaging	Ruggedized PVC box
Length, width, height	12 * 7 * 3 inch
Noise level	6 pT/SQRT(Hz) @ 1 Hz
Sensor	LEMI 029





Figure 2: Example of advanced fluxgate data processing that extends the MT usable range to 10

©2014 KJT Enterprises Inc.