

3.1.2 CMG-5T sensors

3.1.2.1 T5075

CMG-5T ABSOLUTE CALIBRATION (ACCELERATION OUTPUTS)

WORKS ORDER:	4146	DATE:	18/05/2009
SERIAL NUMBER:	T5075	TESTED BY:	MN
SENSITIVITY (+/-g)	1g	OUTPUT (+/-v)	5 volts

$g = 9.80665 \text{ m/s}^2$ at sea level

Acceleration
Response
 V/m/s^2

VERTICAL

$2 \times 0.509 \times g = \pm 9.983 \text{ V for } \pm 1g$

NORTH/SOUTH

2×0.507

EAST/WEST

2×0.510

Vertical component equivalent acceleration from calibration signal of: 1 Volt = 0.982 m/s^2

North/South component equivalent acceleration from calibration signal of: 1 Volt = 0.986 m/s^2

East/West component equivalent acceleration from calibration signal of: 1 Volt = 0.980 m/s^2

Calibration enable signal polarity: Active Low

Typical Current Consumption: N/A

This sensor operates from: 10 to 36 Volts

NOTE: A factor of 2 x must be used when the sensor outputs are used differentially (also known as push-pull or balanced output). Under no conditions should the negative outputs be connected to the signal ground. A separate signal ground pin is provided.