D3000M Series Command Set

The DGH D3000M series products use a simple command and response protocol. A module must be interrogated by a host computer to obtain data. A module will never initiate a command sequence in order to prevent communications collisions.

A command is initiated with a command prompt, may be a dollar sign ($) or pound sign (#). Following the prompt a single address character must be transmitted. Each module on a communications bus must be setup with a unique address. The address is followed by a two character command. Every command is terminated with a carriage return.

The module response begins with a response prompt, which is an asterisk (*) followed by the necessary data. Every response is terminated with a carriage return. Linefeeds after the carriage return are user selectable. See the table below for typical commands and their respective response messages.

D3000/4000 Command Definition	Typical Command	Typical Response
ACK - Acknowledge	$1ACK	*
AO - Analog Output	$1AO+00020.00	*
DI - Digital Input	$1DI	*0007
HX - Hex Output	$1HX0FFF	*
RAO - Read Analog Output	$1RAO	*+00001.07
RHI - Read HI Limit	$1RHI	*+00032.00
RID - Read Identification	$1RID	* Boiler
RLO - Read LO Limit	$1RLO	*+00004.00
RMA - Read Modbus Address	$1RMA	*0104
RMS - Read Manual Slope	$1RMS	*+00004.00
RMN - Read Minimum	$1RMN	*+00004.00
RMX - Read Maximum	$1RMX	*+00020.00
RS - Read Setup	$1RS	*31070140
RSL - Read Slope	$1RSL	*+00001.00
RSU - Read Setup	$1RSU	*31070140
RWT - Read Watchdog Timer	$1RWT	*+00010.00
WE - Write Enable	$1WE	*
Write Protected Commands		
HI - HI Limit	$1HI+00015.00	*
ID - Identification	$1ID BOILER	*
LO - LO Limit	$1LO+00004.00	*
MBD - Modbus Disable	$1MBD	*
MBR - Modbus Enable	$1MBR04	*
RR - Remote Reset	$1RR	*
SU - Setup	$1SU31070140	*
TMN - Trim Minimum	$1TMN+00000.95	*
TMX - Trim Maximum	$1TMX+00100.00	*
WT - Set Watchdog Timer	$1WT+00005.00	*
WSL - Write Slope to EEPROM	$1WSL+00100.00	*