D1000 Series Command Set Protocol

The DGH D1000 and D2000 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.

Command Definition	Typical Command	Typical Response
DI - Read Digital Inputs	$1DI	*0003
DO - Set Digital Outputs	$1DOFF	*
ND - New Data	$1ND	*+00072.00
RD - Read Data	$1RD	*+00072.00
RE - Read Events	$1RE	*0000107
RL - Read LO Alarm	$1RL	*+00032.00M
RH - Read HI Alarm	$1RH	*+00100.00M
RS - Read Setup	$1RS	*31020142
RZ - Read Zero Register	$1RZ	*+00000.00
WE - Write Enable	$1WE	*
Write Protected Commands		
CA - Clear Alarms	$1CA	*
CE - Clear Events	$1CE	*
CZ - Clear Zero Register	$1CZ	*
DA - Disable Alarms	$1DA	*
EA - Enable Alarms	$1EA	*
EC - Events Clear	$1EC	*
HI - Set HI Alarm	$1HI+00100.00L	*
LO - Set LO Alarm	$1LO+00032.00L	*
RR - Remote Reset	$1RR	*
SU - Setup Message	$1SU31070142	*
SP - Set Setpoint	$1SP+00045.00	*
TS - Trim Span	$1TS+00745.00	*
TZ - Trim Zero	$1TZ+00000.00	*
D2000 Programming Commands		
BP - Set Breakpoint	$1BP00+00010.00	*
EB - Erase Breakpoint Table	$1EB	*
MN - Set Minimum Value	$1MN-00200.00	*
MX - Set Maximum Value	$1MX-+00760.00	*