

## 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
<b>DI</b> - Read Digital Inputs	\$1DI	*0003
<b>DO</b> - Set Digital Outputs	\$1DOFF	*
<b>ND</b> - New Data	\$1ND	*+00072.00
<b>RD</b> - Read Data	\$1RD	*+00072.00
<b>RE</b> - Read Events	\$1RE	*0000107
<b>RL</b> - Read LO Alarm	\$1RL	*+00032.00M
<b>RH</b> - Read HI Alarm	\$1RH	*+00100.00M
<b>RS</b> - Read Setup	\$1RS	*31020142
<b>RZ</b> - Read Zero Register	\$1RZ	*+00000.00
<b>WE</b> - Write Enable	\$1WE	*
<b>Write Protected Commands</b>		
<b>CA</b> - Clear Alarms	\$1CA	*
<b>CE</b> - Clear Events	\$1CE	*

<b>CZ</b> - Clear Zero Register	\$1CZ	*
<b>DA</b> - Disable Alarms	\$1DA	*
<b>EA</b> - Enable Alarms	\$1EA	*
<b>EC</b> - Events Clear	\$1EC	*
<b>HI</b> - Set HI Alarm	\$1HI+00100.00L	*
<b>LO</b> - Set LO Alarm	\$1LO+00032.00L	*
<b>RR</b> - Remote Reset	\$1RR	*
<b>SU</b> - Setup Message	\$1SU31070142	*
<b>SP</b> - Set Setpoint	\$1SP+00045.00	*
<b>TS</b> - Trim Span	\$1TS+00745.00	*
<b>TZ</b> - Trim Zero	\$1TZ+00000.00	*
<b>D2000 Programming Commands</b>		
<b>BP</b> - Set Breakpoint	\$1BP00+00010.00	*
<b>EB</b> - Erase Breakpoint Table	\$1EB	*
<b>MN</b> - Set Minimum Value	\$1MN-00200.00	*
<b>MX</b> - Set Maximum Value	\$1MX-+00760.00	*