

D1000M Series Command Set Protocol

The DGH D1000M series products use a simple command and response ASCII protocol or the [Modbus RTU 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	*
RD - Read Data	\$1RD	*+00072.00
RS - Read Setup	\$1RS	*31020142
RZ - Read Zero Register	\$1RZ	*+00000.00
WE - Write Enable	\$1WE	*
Write Protected Commands		
CZ - Clear Zero Register	\$1CZ	*
MBD - Modbus Disable	\$1MBD	*
MBR - Enable Modbus	\$1MBR01	*
RR - Remote Reset	\$1RR	*
SU - Setup Message	\$1SU31070142	*
TS - Trim Span	\$1TS+00745.00	*
TZ - Trim Zero	\$1TZ+00000.00	*