

GDS Advanced Controller quick reference guide (helpsheet 107)

Firmware v3.5/v5.0(with RFM)/v6.2(Serial)



World Leaders in Computer Controlled Testing Systems for Geotechnical Engineers and Geologists

RESET

- 0** invokes **SYSFUN**
- 1** invokes **DIAGNOSTICS**
- 2** **RAMP** command
- 4** Target Volume
- 5** Zero Volume
- 6** Fill
- + Empty
- 7** Target Pressure
- 8** Zero Pressure
- 9** Power On Reset
- “RESET” + “ENTER”**
Removes Computer Control

SYSFUN MENU (RESET, 0)

- 1** Set IEEE Address (IEEE only)
- 4** RFM functions
 - 0** Activate RFM
 - 1** De-activate RFM
 - 2** Set RFM range value
 - 3** Set no. of decimal places
 - 4** Set max. RFM value for limit correction
 - 5** Set min. RFM value for limit correction
 - 6** RFM soft zero offset
 - 7** RFM remove soft zero offset
 - 8** Return to function menu
 - 9** Return to function menu + RFM control ‘in’
- RFM control ‘out’
“ Calibration check on/off
. Used to enter decimal point
- 8** Remove pressure zero offset
- CONT** Set Parity (Serial only)

RAMP MENU (RESET 2)

- Slope cmd **1** = msec
9 = sec
- Slope time interval per *UNIT** change
- Lower Val in *UNITS*
- Upper Val in *UNITS*
- Execute **7** = V,R,+
39 = V,R,-
15 = V,C,+
47 = V,C,-
23 = P,R,+
55 = P,R,-
31 = P,C,+
63 = P,C,-
- * “*UNITS*” will be the minimum displayed resolution on the controller display panel. e.g. a controller may display 0.1MPa pressure and 1mm³ volume resolution these would be used, so if 5MPa is required pressure maximum 50 should be entered.
- *** RESET, 9 should always be used before ramps are set.

DIAGNOSTICS MENU (RESET 1)

- 0** Memory test
- 1** Display diagnostics
- 2** Keyboard diagnostics
- 3** Timer diagnostics
- 4** Forward limit
- 5** Reverse limit
- 6** Buzzer diagnostics
 - 1**: 500Hz tone
 - 2**: 2 kHz tone
 - 3**: 4 kHz tone
- 7** A/D diagnostics
- 8** Stepping motor diagnostics
- 9** IEEE diagnostics
- 10** RFM A/D diagnostics